

<211> 27

27

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<400> 7
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<400> 8
ggggactttc cc
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ccatctcaat tag                                         73
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cagttccgcc  cattctccgc cccatggctg actaattttt tttatttatg cagaggccga      180
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240
256

<210> 11
<211> 4746
<212> DNA
<213> Homo sapiens

<400> 11
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100250" 665560

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<210> 12
<211> 2302
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2300)
<223> n equals a,t,g, or c
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[illegible]

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<210> 13
<211> 501
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (487)
<223> n equals a,t,g, or c
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gcgccttct	gctgcggaag	aagcggttcg	gccagtggac	caagttgctc	tgcgtcatca				180
aagacaccaa	actgttgtgc	tataaaagtt	ccaaggacca	gcagcctcag	atggaactgc				240
cactccaagg	ctgtaacatt	acgtacatcc	cgaaagacag	caaaaagaag	aagcacgagc				300
tgaagattac	tcagcagggc	acggaccccgc	ttgttctcgc	cgtccagagc	aaggaacagg				360
ccgagcagtg	gctgaagggtg	atcaaagaag	cctacagtgg	ttgtagtggc	cccgtggatt				420
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ttcganana	ccagctcaaa	t							501

<400>	14						
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aaatatccat	ttagaccata	atgagttccag	tgtgcatagg	attattggac	gaggaggatt		180
cggggaagtt	tatggttgca	ggaaagcaga	cactggaaaa	atgtatgcaa	tgaaatgctt		240
agataagaag	aggatacaaa	tgaacaacag	agaaacatta	gccttaaatg	aaagaatcat		300
gttgtctctt	gtcagcacag	gagactgtcc	tttcatgtta	tgtatgacct	atgctttcca		360
taccccgat	aaactctgct	tcactctgga	tctgatgaac	gggggcgatt	tgcactacca		420
cctttcacaa	cacggtgtgt	tctctgagaa	ggagatgcgg	ttttatgcca	ctgaaatcat		480
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caaactttct	agaggtcaca	gccctttcag	acaacataaa	accaaagaca	agcatgaaat		780
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cctctttcca	aatagccttt	gattggggag	gagagggata	ttcccagcga	aatttcctgc	1380
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<210> 15
 <211> 1987
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1987)
 <223> n equals a,t,g, or c

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gctgtggaga	cagagctcca	tcctccgccc	ctggaagcgg	aactggtttg	ccctgtggct		240
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gacgcacgtg	atagtgcggg	aggatccctg	ctacagcgcc	ggcgcccctc	tggccatggg		660
catgtcttgc	ggascgccac	tgggcggcry	wgggctcgct	catgtggctg	ccctgtgggt		720
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aaaaaan							1987

<210> 16
 <211> 2174
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> n equals a,t,g, or c

095599-092001

<220>
 <221> SITE
 <222> (176)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1323)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1900)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1968)
 <223> n equals a,t,g, or c

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 gggggggccc ggta 2174

<210> 17
 <211> 719
 <212> DNA
 <213> Homo sapiens

005599 "09260" 666560

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<220>
<221> SITE
<222> (719)
<223> n equals a,t,g, or c
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<210> 18
<211> 356
<212> DNA
<213> Homo sapiens
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```
<210> 19
<211> 1386
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (133)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (1219)
<223> n equals a,t,g, or c
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<220>
<221> SITE

<222> (1317)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1374)
 <223> n equals a,t,g, or c

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 gcccttccctg acccggggsc ccctttcctc caggggcccc atctggcttc cgagctnaag 1320
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 caaaaag 1386

<210> 20
 <211> 1114
 <212> DNA
 <213> Homo sapiens

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<210> 21
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 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (383)
 <223> n equals a,t,g, or c

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 <211> 2451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

0995999-092001

<223> n equals a, t, q, or c

<400> 23
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<210> 24
 <211> 2901
 <212> DNA
 <213> Homo sapiens

<400> 24
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 tgtcactatt gattccatca aagatgaggg agacttaagg aatggatggc taatcaagac 540
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<210> 25
<211> 946
<212> DNA
<213> Homo sapiens

<220>
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<222> (889)
<223> n equals a,t,g, or c
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<210> 26
<211> 1569
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c
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<222> (17)
<223> n equals a,t,g, or c
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<220>
<221> SITE

<222> (792)

<223> n equals a,t,g, or c

<400> 27

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<210> 28

<211> 911

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (909)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (910)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (911)

<223> n equals a,t,g, or c

<400> 28

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911

<210> 29
 <211> 2047
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2042)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2046)
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<210> 30
 <211> 876
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<210> 32
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<220>
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<210> 33
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 <222> (968)
 <223> n equals a,t,g, or c

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<210>	38
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<212>	DNA

$\langle 220 \rangle$

<210>	42
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<210> 43

<211> 2978

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

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<222> (2947)

<223> n equals a,t,g, or c

<220>

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<222> (2973)

<223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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883

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<213> Homo sapiens

<220>
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<222> (2365)
<223> n equals a,t,g, or c
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[illegible]

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<210> 47
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 47						
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 <211> 833
 <212> DNA
 <213> Homo sapiens

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<210> 50
<211> 597
<212> DNA
<213> Homo sapiens

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<211> 1445
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1441)
<223> n equals a,t,g, or c

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<211> 395
<212> DNA
<213> Homo sapiens

<400> 52
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aagagctgga aacgtcgctt ctttgcaact gatgacttta ccatctgcta cttcaagtgt 180
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<212> DNA
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<220>
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<222> (2041)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2050)
<223> n equals a,t,g, or c

<400> 53
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taccatcaaa gaaagaaaac cgaatgtgtt ttcttttttt acttggttcta acttggtagt 180
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ggttagcaaa atttactgac aatggaacag attctctctg tggaagaaac tcaaattaaa 300
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cggctattgc gtcgtgcccc gaagtctctc aacaaacctc ggtcaggtag tgtggagctc 480
ccaaagccat ccctctgtca cagaaacagc aacggcctct agcaccaga aacaggagg 540
gtcctcgagg aggacacacc aggttctcag ccttttgggg tgaacgagga tgaggcatct 600

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<210> 54
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (366)
<223> n equals a,t,g, or c

<220>
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<222> (397)
<223> n equals a,t,g, or c

<220>
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<222> (409)
<223> n equals a,t,g, or c

<400> 54
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aagctngagg agggagtgtt ttcaaaatgg aaaaacntgt ttccaggtnc attccagtcc 420
agagcgttg 429

<210> 55
<211> 467
<212> DNA
<213> Homo sapiens

<400> 55
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attcctgggg	gaactgtctt	actgcaggct	gccaatagyt	acctgcgaga	ccagtgggtc	360
cattctctgc	aatggaagaa	aaagatttac	aaatataaga	aagtgytgag	taacccaarc	420
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<210> 56

<211> 2022

<212> DNA

<213> Homo sapiens

<400> 56

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caagtgacaa	ggctttcttt	gatctcaaga	ccagcaaacg	tgtgtataac	ttctgcgccc	300
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gatgcccattg	gtcaaccac	gcagaagaaa	cagaagaact	cctgctgcca	gatagataga	420
aaaagaagca	tggatccttg	aggagctgac	aacaagttat	cccagggcct	gaggttctcc	480
tgcccagtc	cctcttgcag	gggttgctat	atctacttaa	cctgaatagg	tgtttcacac	540
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cttagtgggt	aatgatcaga	agatgtctcc	tgagccaact	gtgaacctca	cccaggcaaa	660
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cacattattt	gtatttttct	ttgtatatga	aataattttt	tgtactttgt	aaaatatgga	1860
gccatttgta	ccttcagcta	tttgagacta	tacacagtgc	ttcttttgta	actggattac	1920
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<210> 57

<211> 1558

<212> DNA

<213> Homo sapiens

<400> 57

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aaggcccagg	ggtccggcca	cccaggcggg	gcagctccgt	aataaataat	ggagttgggg	180
gcaggggggc	agggctgctc	ctgcttcttc	ttgactgaaa	tccgcttctt	tctcgctgcc	240
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ccgtcccgct	cagtttttgc	ggctttgatg	agctgcccc	tggtgttggg	gatgtaaagt	420
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<210> 58
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (370)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (397)
 <223> n equals a,t,g, or c

<400> 58						
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tcagcatgca	gaggaggccc	agctgctgag	aggagtgtgc	tgagagtkac	ctttgcatct	240
gcctgtccag	ccagcatgga	accaaagcgg	atcagagagg	gctaccttgt	gaagaagggg	300
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a						421

<210> 59
 <211> 2122
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (326)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (428)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

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<210>	61
<211>	857
<212>	DNA

<220>

<221> SITE
 <222> (2267)
 <223> n equals a,t,g, or c

<220>
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 <222> (2421)
 <223> n equals a,t,g, or c

<220>
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 <222> (2455)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2462)
 <223> n equals a,t,g, or c

<400> 62

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cncca						2465

<210> 63
 <211> 963

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<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (813)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (855)
<223> n equals a,t,g, or c

<400> 63
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cta 963

<210> 64
<211> 586
<212> PRT
<213> Homo sapiens

<400> 64
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Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
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Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
35 40 45
Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
50 55 60
Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
65 70 75 80
Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
85 90 95
Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
100 105 110
Ser Gln Val Cys Asn Leu Gly His Leu Glu Asp Gly Ala Asp Ser Met
115 120 125
Glu Ser Leu Ser Tyr Thr Pro Ser Ser Leu Gln Pro Ser Ser Ala Ser
130 135 140

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Ser 145	Leu	Leu	Thr	Ala	His 150	Ala	Ala	Ser	Ser	Ser 155	Leu	Pro	Arg	Asp	Asp 160
Pro	Asn	Thr	Asn	Ala 165	Val	Ala	Thr	Glu	Glu 170	Thr	Arg	Ser	Glu	Ser 175	Glu
Leu	Leu	Phe	Leu 180	Pro	Asp	Tyr	Leu	Val 185	Leu	Ser	Asn	Cys	Glu 190	Thr	Gly
Arg	Leu	His 195	His	Thr	Ser	Leu	Pro 200	Thr	Arg	Cys	Asp	Ser 205	Trp	Ser	Asn
Ser	Asp 210	Arg	Ser	Leu	Glu	Gln 215	Ala	Ser	Phe	Asp	Asp 220	Val	Phe	Val	Asp
Cys 225	Leu	Gln	Pro	Leu	Pro 230	Ser	Ser	His	Leu	Val 235	His	Pro	Ser	Cys	His 240
Gly	Ser	Gly	Ala	Gln 245	Glu	Val	Pro	Ser	Ser 250	Arg	Pro	Gln	Ala	Ala 255	Leu
Ile	Trp	Ser	Arg 260	Glu	Ile	Asn	Gly	Pro 265	Pro	Arg	Asp	His	Leu 270	Ser	Ser
Ser	Pro	Leu 275	Leu	Glu	Ser	Ser	Leu 280	Ser	Ser	Thr	Ile	Gln 285	Val	Asp	Lys
Asn	Gln 290	Gly	Ser	Leu	Pro	Cys 295	Gly	Ala	Lys	Glu	Leu 300	Asp	Ile	Met	Ser
Asn 305	Thr	Pro	Pro	Pro	Arg 310	Pro	Pro	Lys	Pro	Ser 315	His	Leu	Ser	Glu	Arg 320
Arg	Gln	Glu	Glu	Trp 325	Ser	Thr	His	Ser	Gly 330	Ser	Lys	Lys	Pro	Glu 335	Cys
Thr	Leu	Val	Pro 340	Arg	Arg	Ile	Ser	Leu 345	Ser	Gly	Leu	Asp	Asn 350	Met	Arg
Thr	Trp	Lys 355	Ala	Asp	Val	Glu	Gly 360	Gln	Ser	Leu	Arg	His 365	Arg	Asp	Lys
Arg	Leu 370	Ser	Leu	Asn	Leu	Pro 375	Cys	Arg	Phe	Ser	Pro 380	Met	Tyr	Pro	Thr
Ala 385	Ser	Ala	Ser	Ile	Glu 390	Asp	Ser	Tyr	Val	Pro 395	Met	Ser	Pro	Gln	Ala 400
Gly	Ala	Ser	Gly	Leu 405	Gly	Pro	His	Cys	Ser 410	Pro	Asp	Asp	Tyr	Ile 415	Pro
Met	Asn	Ser	Gly 420	Ser	Ile	Ser	Ser	Pro 425	Leu	Pro	Glu	Leu	Pro 430	Ala	Asn
Leu	Glu	Pro 435	Pro	Pro	Val	Asn	Arg 440	Asp	Leu	Lys	Pro	Gln 445	Arg	Lys	Ser
Arg	Pro 450	Pro	Pro	Leu	Asp	Leu 455	Arg	Asn	Leu	Ser	Ile 460	Ile	Arg	Glu	His
Ala 465	Ser	Leu	Thr	Arg	Thr 470	Arg	Thr	Val	Pro	Cys 475	Ser	Arg	Thr	Ser	Phe 480
Leu	Ser	Pro	Glu	Arg 485	Asn	Gly	Ile	Asn	Ser 490	Ala	Arg	Phe	Phe	Ala 495	Asn

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<210> 65
<211> 416
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (292)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65
Arg Val Ser Tyr Ser His Gly Leu Arg Lys Glu Leu Leu Lys Ser Ile
  1          5          10          15
Trp Tyr Ala Phe Thr Ala Leu Asp Val Glu Lys Ser Gly Lys Val Ser
          20          25          30
Lys Ser Gln Leu Lys Val Leu Ser His Asn Leu Tyr Thr Val Leu His
          35          40          45
Ile Pro His Asp Pro Val Ala Leu Glu Glu His Phe Arg Asp Asp Asp
  50          55          60
Asp Gly Pro Val Ser Ser Gln Gly Tyr Met Pro Tyr Leu Asn Lys Tyr
  65          70          75          80
Ile Leu Asp Lys Val Glu Glu Gly Ala Phe Val Lys Glu His Phe Asp
          85          90          95
Glu Leu Cys Trp Thr Leu Thr Ala Lys Lys Asn Tyr Arg Ala Asp Ser
          100          105          110
Asn Gly Asn Ser Met Leu Ser Asn Gln Asp Ala Phe Arg Leu Trp Cys
          115          120          125
Leu Phe Asn Phe Leu Ser Glu Asp Lys Tyr Pro Leu Ile Met Val Pro
          130          135          140
Asp Glu Val Glu Tyr Leu Leu Lys Lys Val Leu Ser Ser Met Ser Leu
          145          150          155          160
Glu Val Ser Leu Gly Glu Leu Glu Glu Leu Leu Ala Gln Glu Ala Gln
          165          170          175
Val Ala Gln Thr Thr Gly Gly Leu Ser Val Trp Gln Phe Leu Glu Leu
          180          185          190

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Phe Asn Ser Gly Arg Cys Leu Arg Gly Val Gly Arg Asp Thr Leu Ser
 195 200 205
 Met Ala Ile His Glu Val Tyr Gln Glu Leu Ile Gln Asp Val Leu Lys
 210 215 220
 Gln Gly Tyr Leu Trp Lys Arg Gly His Leu Arg Arg Asn Trp Ala Glu
 225 230 235 240
 Arg Trp Phe Gln Leu Gln Pro Ser Cys Leu Cys Tyr Phe Gly Ser Glu
 245 250 255
 Glu Cys Lys Glu Lys Arg Gly Ile Ile Pro Leu Asp Ala His Cys Cys
 260 265 270
 Val Glu Val Leu Pro Asp Arg Asp Gly Lys Arg Cys Met Phe Cys Val
 275 280 285
 Lys Thr Ala Xaa Arg Thr Tyr Glu Met Ser Ala Ser Asp Thr Arg Gln
 290 295 300
 Arg Gln Glu Trp Thr Ala Ala Ile Gln Met Ala Ile Arg Leu Gln Ala
 305 310 315 320
 Glu Gly Lys Thr Ser Leu His Lys Asp Leu Lys Gln Lys Arg Arg Glu
 325 330 335
 Gln Arg Glu Gln Arg Glu Arg Arg Arg Ala Ala Arg Lys Arg Ser Cys
 340 345 350
 Cys Gly Cys Ser Ser Cys Arg Arg Arg Arg Ser Gly Ser Cys Arg Ser
 355 360 365
 Trp Ser Cys Cys Arg Arg Arg Thr Ala Gly Arg Ala Ala Ala Ala Gly
 370 375 380
 Gly Gly Gly Thr Ala Pro Gln Pro Ala Pro Arg Ala Ala Ala Gly Ala
 385 390 395 400
 Arg Gly Pro Thr Ala Arg Gly Gly Ala Gly Pro Gly Leu His Ala Gly
 405 410 415

<210> 66
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (162)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (163)
 <223> Xaa equals any of the naturally occurring L-amino acids

000220" 66555660

Phe Ser Val His Arg Ile Ile Gly Arg Gly Gly Phe Gly Glu Val Tyr

50					55					60					
Gly 65	Cys	Arg	Lys	Ala	Asp 70	Thr	Gly	Lys	Met	Tyr 75	Ala	Met	Lys	Cys	Leu 80
Asp	Lys	Lys	Arg	Ile 85	Lys	Met	Lys	Gln	Gly 90	Glu	Thr	Leu	Ala	Leu 95	Asn
Glu	Arg	Ile	Met 100	Leu	Ser	Leu	Val	Ser 105	Thr	Gly	Asp	Cys	Pro 110	Phe	Ile
Val	Cys	Met 115	Thr	Tyr	Ala	Phe	His 120	Thr	Pro	Asp	Lys	Leu 125	Cys	Phe	Ile
Leu	Asp 130	Leu	Met	Asn	Gly	Gly 135	Asp	Leu	His	Tyr	His 140	Leu	Ser	Gln	His
Gly 145	Val	Phe	Ser	Glu	Lys 150	Glu	Met	Arg	Phe	Tyr 155	Ala	Thr	Glu	Ile	Ile 160
Leu	Gly	Leu	Glu	His 165	Met	His	Asn	Arg	Phe 170	Val	Val	Tyr	Arg	Asp 175	Leu
Lys	Pro	Ala	Asn 180	Ile	Leu	Leu	Asp	Glu 185	His	Gly	His	Ala	Arg 190	Ile	Ser
Asp	Leu	Gly 195	Leu	Ala	Cys	Asp	Phe 200	Ser	Lys	Lys	Lys	Pro 205	His	Ala	Ser
Val	Gly 210	Thr	His	Gly	Tyr	Met 215	Ala	Pro	Glu	Val	Leu 220	Gln	Lys	Gly	Thr
Ala 225	Tyr	Asp	Ser	Ser	Ala 230	Asp	Trp	Phe	Ser	Leu 235	Gly	Cys	Met	Leu	Phe 240
Lys	Leu	Leu	Arg	Gly 245	His	Ser	Pro	Phe	Arg 250	Gln	His	Lys	Thr	Lys 255	Asp
Lys	His	Glu	Ile 260	Asp	Arg	Met	Thr	Leu 265	Thr	Val	Asn	Val	Glu 270	Leu	Pro
Asp	Thr	Phe 275	Ser	Pro	Glu	Leu	Lys 280	Ser	Leu	Leu	Glu	Gly 285	Leu	Leu	Gln
Arg	Asp 290	Val	Ser	Lys	Arg	Leu 295	Gly	Cys	His	Gly	Gly 300	Gly	Ser	Gln	Glu
Val 305	Lys	Glu	His	Ser	Phe 310	Phe	Lys	Gly	Val	Asp 315	Trp	Gln	His	Val	Tyr 320
Leu	Gln	Lys	Tyr	Pro 325	Pro	Pro	Leu	Ile	Pro 330	Pro	Arg	Gly	Glu	Val 335	Asn
Ala	Ala	Asp	Ala 340	Phe	Asp	Ile	Gly	Ser 345	Phe	Asp	Glu	Glu	Asp 350	Thr	Lys
Gly	Ile	Lys 355	Leu	Leu	Asp	Cys	Asp 360	Gln	Glu	Leu	Tyr	Lys 365	Asn	Phe	Pro
Leu	Val 370	Ile	Ser	Glu	Arg	Trp 375	Gln	Gln	Glu	Val	Thr 380	Xaa	Thr	Val	Tyr
Glu 385	Ala	Val	Asn	Ala	Asp 390	Thr	Xaa	Lys	Ile	Glu 395	Ala	Arg	Lys	Arg	Ala 400
Lys	Asn	Lys	Gln	Xaa	Gly	His	Glu	Glu	Asp	Tyr	Ala	Leu	Gly	Lys	Asp

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      405                                410                                415
Cys Ile Met His Gly Tyr Met Leu Lys Leu Gly Asn Pro Phe Leu Thr
      420                                425                                430

Gln Trp Gln Arg Arg Asp Phe Tyr Leu Phe Pro Asn Ser Leu
      435                                440                                445

<210> 68
<211> 244
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 68
Ser Xaa Asp Lys Val Pro Pro Asp Ser Ala Leu Glu Ser Pro Phe Glu
  1              5              10              15

Glu Met Ala Leu Val Arg Gly Gly Trp Leu Trp Arg Gln Ser Ser Ile
      20              25              30

Leu Arg Arg Trp Lys Arg Asn Trp Phe Ala Leu Trp Leu Asp Gly Thr
      35              40              45

Leu Gly Tyr Tyr His Asp Glu Thr Ala Gln Asp Glu Glu Asp Arg Val
  50              55              60

Leu Ile His Phe Asn Val Arg Asp Ile Lys Ile Gly Pro Glu Cys His
  65              70              75              80

Asp Val Gln Pro Pro Glu Gly Arg Ser Arg Asp Gly Leu Leu Thr Val
      85              90              95

Asn Leu Arg Glu Gly Gly Arg Leu His Leu Cys Ala Glu Thr Lys Asp
      100              105              110

Asp Ala Leu Ala Trp Lys Thr Ala Leu Leu Glu Ala Asn Ser Thr Pro
      115              120              125

Val Arg Val Tyr Ser Pro Tyr Gln Asp Tyr Tyr Glu Val Val Pro Pro
      130              135              140

Asn Ala His Glu Ala Thr Tyr Val Arg Ser Tyr Tyr Gly Pro Pro Tyr
  145              150              155              160

Ala Gly Pro Gly Val Thr His Val Ile Val Arg Glu Asp Pro Cys Tyr
      165              170              175

Ser Ala Gly Ala Pro Leu Ala Met Gly Met Leu Ala Gly Xaa Pro Leu
      180              185              190

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<210> 69
<211> 378
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (308)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (366)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (375)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 69
Glu Leu Asp Pro Lys Cys Arg Gly Leu Pro Phe Ser Ser Phe Leu Ile
 1             5             10             15
Leu Pro Phe Gln Arg Ile Thr Arg Leu Lys Leu Leu Val Gln Asn Ile
          20             25             30
Leu Lys Arg Val Glu Glu Arg Ser Glu Arg Glu Cys Thr Ala Leu Asp

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35					40					45					
Ala	His	Lys	Glu	Leu	Glu	Met	Val	Val	Lys	Ala	Cys	Asn	Glu	Gly	Val
50						55					60				
Arg	Lys	Met	Ser	Arg	Thr	Glu	Gln	Met	Ile	Ser	Ile	Gln	Lys	Lys	Met
65					70					75					80
Xaa	Phe	Lys	Ile	Xaa	Ser	Val	Pro	Ile	Ile	Ser	His	Ser	Arg	Trp	Leu
				85					90					95	
Leu	Lys	Gln	Gly	Glu	Leu	Gln	Gln	Xaa	Xaa	Gly	Pro	Lys	Thr	Ser	Arg
			100					105					110		
Thr	Leu	Arg	Thr	Lys	Lys	Leu	Phe	His	Glu	Ile	Tyr	Leu	Phe	Leu	Phe
		115					120					125			
Asn	Asp	Leu	Leu	Val	Ile	Cys	Arg	Gln	Ile	Pro	Gly	Asp	Lys	Tyr	Gln
	130					135					140				
Val	Phe	Asp	Ser	Ala	Pro	Arg	Gly	Leu	Leu	Arg	Val	Glu	Glu	Leu	Glu
145					150					155					160
Asp	Gln	Gly	Gln	Thr	Leu	Ala	Asn	Val	Phe	Ile	Leu	Arg	Leu	Leu	Glu
				165					170					175	
Asn	Ala	Xaa	Asp	Arg	Glu	Ala	Thr	Tyr	Met	Leu	Lys	Ala	Ser	Ser	Gln
			180					185					190		
Ser	Glu	Met	Lys	Arg	Trp	Met	Thr	Ser	Leu	Ala	Pro	Asn	Arg	Arg	Thr
		195					200					205			
Lys	Phe	Val	Ser	Phe	Thr	Ser	Arg	Leu	Leu	Asp	Cys	Pro	Gln	Val	Gln
	210					215					220				
Cys	Val	His	Pro	Tyr	Val	Ala	Gln	Gln	Pro	Asp	Glu	Leu	Thr	Leu	Glu
225					230					235					240
Leu	Ala	Asp	Ile	Leu	Asn	Ile	Leu	Asp	Lys	Thr	Asp	Asp	Gly	Trp	Ile
				245					250					255	
Phe	Gly	Glu	Arg	Leu	His	Asp	Gln	Glu	Arg	Gly	Trp	Phe	Pro	Ser	Ser
			260					265					270		
Met	Thr	Glu	Glu	Ile	Leu	Asn	Pro	Lys	Ile	Arg	Ser	Gln	Asn	Leu	Lys
		275					280					285			
Glu	Cys	Phe	Arg	Val	His	Lys	Met	Asp	Asp	Pro	Gln	Arg	Ser	Arg	Thr
	290					295					300				
Arg	Thr	Ala	Xaa	Ser	Trp	Ala	Ala	Gly	Ile	Gly	Asn	Asp	Pro	His	Pro
305					310					315					320
Gly	Gly	Gln	Arg	Glu	Gln	Gly	Leu	His	Glu	Thr	Pro	Thr	Glu	Gly	Gly
				325					330					335	
Gly	Gly	Ala	Leu	Gly	Ser	Thr	Gly	Gln	His	Leu	Pro	Arg	Trp	Gln	Asp
			340					345					350		
Leu	Ala	Trp	Gly	Ala	Arg	Pro	Ser	Ser	Leu	Pro	Thr	His	Xaa	Cys	Ser
		355					360					365			
Cys	Val	Leu	Ala	Pro	Cys	Xaa	Gln	Thr	Gly						
370						375									

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<210> 70
 <211> 205
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 70
 Ala Arg Ala Ala Trp Pro Gly Val Asp Ala Val Ala Glu Pro Arg Gly
 1 5 10 15
 Ala Gly Arg Xaa Trp Arg Thr Ala Gly Pro Arg Arg Thr Arg Met Glu
 20 25 30
 Glu Glu Gly Val Lys Glu Xaa Gly Glu Lys Pro Arg Gly Ala Gln Met
 35 40 45
 Val Asp Lys Ala Gly Trp Ile Lys Lys Ser Ser Gly Gly Leu Leu Gly
 50 55 60
 Phe Trp Lys Asp Arg Tyr Leu Leu Leu Cys Gln Ala Gln Leu Leu Val
 65 70 75 80
 Tyr Glu Asn Glu Asp Asp Gln Lys Cys Val Glu Thr Val Glu Leu Gly
 85 90 95
 Ser Tyr Glu Lys Cys Gln Asp Leu Arg Ala Leu Leu Lys Arg Lys His
 100 105 110
 Arg Phe Ile Leu Leu Arg Ser Pro Gly Asn Lys Val Ser Asp Ile Lys
 115 120 125
 Phe Gln Ala Pro Thr Gly Glu Glu Lys Glu Ser Trp Ile Lys Ala Leu
 130 135 140
 Asn Glu Gly Ile Asn Arg Gly Lys Asn Lys Ala Phe Asp Glu Val Lys
 145 150 155 160
 Val Asp Lys Ser Cys Ala Leu Glu His Val Thr Arg Asp Arg Val Arg
 165 170 175
 Gly Gly Gln Arg Arg Arg Pro Pro Thr Arg Val His Leu Lys Glu Val
 180 185 190
 Ala Ser Ala Ala Ser Asp Gly Leu Leu Arg Leu Gly Ser
 195 200 205

<210> 71
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

0095999.002004

<400> 71
 Trp Glu Pro Phe Pro Ser Glu Gln Gln Pro Cys Pro Ala Ser Val Leu
 1 5 10 15
 Ser Ser Gln Gln Gly Lys Ser Ile Ser Leu Ile Met Glu Glu Asn Asn
 20 25 30
 Asp Ser Thr Glu Asn Pro Gln Gln Gly Gln Gly Arg Gln Asn Ala Ile
 35 40 45
 Lys Cys Gly Trp Leu Arg Lys Gln Gly Gly Phe Val Lys Thr Trp His
 50 55 60
 Thr Arg Trp Phe Val Leu Lys Gly Asp Gln Leu Tyr Tyr Phe Lys Asp
 65 70 75 80
 Glu Asp Glu Thr Lys Pro Leu Glu Tyr Leu Thr Thr Ser Gly Asp Ser
 85 90 95
 Val Trp Leu Val Xaa Ser Trp Gly Arg Tyr His Arg Tyr Leu Val Gly
 100 105 110
 Arg Ser Arg Gly Ala Phe
 115

<210> 72
 <211> 361
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (295)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 72
 Leu Ser Cys Ser Gly Ile His Arg Asn Ile Pro Gln Val Ser Lys Val
 1 5 10 15
 Lys Ser Val Arg Leu Asp Ala Trp Xaa Glu Ala Gln Val Glu Phe Met
 20 25 30
 Ala Ser His Gly Asn Asp Ala Ala Arg Ala Arg Phe Xaa Ser Lys Val
 35 40 45
 Pro Ser Phe Tyr Tyr Arg Pro Thr Pro Ser Asp Cys Gln Leu Leu Arg
 50 55 60
 Glu Gln Trp Ile Arg Ala Lys Tyr Glu Arg Gln Glu Phe Ile Tyr Pro
 65 70 75 80
 Glu Lys Gln Glu Pro Tyr Ser Ala Gly Tyr Arg Glu Gly Phe Leu Trp
 85 90 95
 Lys Arg Gly Arg Asp Asn Gly Gln Phe Leu Ser Arg Lys Phe Val Leu

000250" 0055500

0968701

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<220>
<221> SITE
<222> (286)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (289)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Ser Thr His Ala Ser Ala Gly Leu Gly Gly Arg Arg Pro Arg Leu Arg
1 5 10 15

Tyr Arg Cys Leu Ala Val Gln Pro Gly Arg Leu Pro Ala Arg Pro Pro
20 25 30

Pro Asp Gln Gly Pro Arg Pro Val Pro Pro Leu Ser Arg Pro Ala Lys
35 40 45

Cys Arg Pro Pro Pro Ser Leu Arg Arg Ser Val Gly Ser Trp Lys Met
50 55 60

Leu Lys Ser Phe Trp Gln Lys Val Cys Gly Met Arg Thr Ser Ala Leu
65 70 75 80

Leu Gln Gly Ile Thr Asp His Ile Leu Arg Gly Phe Gln Gln Ile Lys
85 90 95

Ala Arg Tyr Tyr Trp Asp Phe Gln Pro Gln Gly Gly Asp Ile Gly Gln
100 105 110

Asp Ser Ser Asp Asp Asn His Ser Gly Thr Leu Gly Leu Ser Leu Thr
115 120 125

Ser Asp Ala Pro Phe Leu Ser Asp Tyr Gln Asp Glu Gly Met Glu Asp
130 135 140

Ile Val Lys Gly Ala Gln Glu Leu Asp Asn Val Ile Lys Gln Gly Tyr
145 150 155 160

Leu Glu Lys Lys Ser Lys Asp His Ser Phe Phe Gly Ser Glu Trp Gln
165 170 175

Lys Arg Trp Cys Val Val Ser Arg Gly Leu Phe Tyr Tyr Tyr Ala Asn
180 185 190

Glu Lys Ser Lys Gln Pro Lys Gly Thr Phe Leu Ile Lys Gly Tyr Ser
195 200 205

Val Arg Met Ala Pro His Leu Arg Arg Asp Ser Lys Lys Glu Ser Cys
210 215 220

Phe Glu Leu Thr Ser Gln Asp Arg Arg Ser Tyr Glu Phe Thr Ala Thr
225 230 235 240

Ser Pro Ala Glu Ala Arg Asp Trp Val Asp Gln Ile Ser Phe Leu Leu
245 250 255

Lys Asp Leu Ser Ser Leu Thr Ile Pro Tyr Glu Glu Asp Glu Glu Glu
260 265 270

Glu Glu Lys Glu Glu Thr Tyr Asp Asp Ile Asp Gly Phe Xaa Ser Pro
275 280 285

Xaa Cys Gly Ser Gln Cys Arg Pro Thr Ile Xaa Pro Gly Ser Xaa Gly

290					295					300					
Ile 305	Lys	Glu	Pro	Thr	Glu 310	Glu	Lys	Glu	Glu	Glu 315	Asp	Ile	Tyr	Glu	Ser 320
Leu Ala Arg															
<210> 74															
<211> 327															
<212> PRT															
<213> Homo sapiens															
<400> 74															
Asn 1	Cys	Gln	Gly	Thr 5	Gly	Asp	Phe	Asn	Leu 10	Lys	Val	Glu	Ala	Ala 15	Lys
Ile	Ala	Arg	Ser 20	Arg	Ser	Val	Met	Thr 25	Gly	Glu	Gln	Met	Ala 30	Ala	Phe
His	Pro	Ser 35	Ser	Thr	Pro	Asn	Pro 40	Leu	Glu	Arg	Pro	Ile 45	Lys	Met	Gly
Trp	Leu 50	Lys	Lys	Gln	Arg	Ser 55	Ile	Val	Lys	Asn	Trp 60	Gln	Gln	Arg	Tyr
Phe 65	Val	Leu	Arg	Ala	Gln 70	Gln	Leu	Tyr	Tyr	Tyr 75	Lys	Asp	Glu	Glu	Asp 80
Thr	Lys	Pro	Gln	Gly 85	Cys	Met	Tyr	Leu	Pro 90	Gly	Cys	Thr	Ile	Lys 95	Glu
Ile	Ala	Thr	Asn 100	Pro	Glu	Glu	Ala	Gly 105	Lys	Phe	Val	Phe	Glu 110	Ile	Ile
Pro	Ala	Ser 115	Trp	Asp	Gln	Asn	Arg 120	Met	Gly	Gln	Asp	Ser 125	Tyr	Val	Leu
Met	Ala 130	Ser	Ser	Gln	Ala	Glu 135	Met	Glu	Glu	Trp	Val 140	Lys	Phe	Leu	Arg
Arg 145	Val	Ala	Gly	Thr	Pro 150	Cys	Gly	Ala	Val	Phe 155	Gly	Gln	Arg	Leu	Asp 160
Glu	Thr	Val	Ala	Tyr 165	Glu	Gln	Lys	Phe	Gly 170	Pro	His	Leu	Val	Pro 175	Ile
Leu	Val	Glu	Lys 180	Cys	Ala	Glu	Phe	Ile 185	Leu	Glu	His	Gly	Arg 190	Asn	Glu
Glu	Gly	Ile 195	Phe	Arg	Leu	Pro	Gly 200	Gln	Asp	Asn	Leu	Val 205	Lys	Gln	Leu
Arg	Asp 210	Ala	Phe	Asp	Ala	Gly 215	Glu	Arg	Pro	Ser	Phe 220	Asp	Arg	Asp	Thr
Asp 225	Val	His	Thr	Val	Ala 230	Ser	Leu	Leu	Lys	Leu 235	Tyr	Leu	Arg	Asp	Leu 240
Pro	Glu	Pro	Val	Val 245	Pro	Trp	Ser	Gln	Tyr 250	Glu	Gly	Phe	Leu	Leu 255	Cys
Gly	Gln	Leu	Thr 260	Asn	Ala	Asp	Glu	Ala 265	Lys	Ala	Gln	Gln	Glu 270	Leu	Met

Lys Gln Leu Ser Ile Leu Pro Arg Asp Asn Tyr Ser Leu Leu Ser Tyr
 275 280 285
 Ile Cys Arg Phe Leu His Glu Ile Gln Leu Asn Cys Ala Val Asn Lys
 290 295 300
 Met Ser Val Asp Asn Leu Ala Thr Val Ile Gly Val Asn Leu Ile Arg
 305 310 315 320
 Ser Lys Val Glu Ala Leu Pro
 325

<210> 75
 <211> 283
 <212> PRT
 <213> Homo sapiens

<400> 75
 Arg Ala Arg Met Gly Arg Ala Glu Leu Leu Glu Gly Lys Met Ser Thr
 1 5 10 15
 Gln Asp Pro Ser Asp Leu Trp Ser Arg Ser Asp Gly Glu Ala Glu Leu
 20 25 30
 Leu Gln Asp Leu Gly Trp Tyr His Gly Asn Leu Thr Arg His Ala Ala
 35 40 45
 Glu Ala Leu Leu Leu Ser Asn Gly Cys Asp Gly Ser Tyr Leu Leu Arg
 50 55 60
 Asp Ser Asn Glu Thr Thr Gly Leu Tyr Ser Leu Ser Val Arg Ala Lys
 65 70 75 80
 Asp Ser Val Lys His Phe His Val Glu Tyr Thr Gly Tyr Ser Phe Lys
 85 90 95
 Phe Gly Phe Asn Glu Phe Ser Ser Leu Lys Asp Phe Val Lys His Phe
 100 105 110
 Ala Asn Gln Pro Leu Ile Gly Ser Glu Thr Gly Thr Leu Met Val Leu
 115 120 125
 Lys His Pro Tyr Pro Arg Lys Val Glu Glu Pro Ser Ile Tyr Glu Ser
 130 135 140
 Val Arg Val His Thr Ala Met Gln Thr Gly Arg Thr Glu Asp Asp Leu
 145 150 155 160
 Val Pro Thr Ala Pro Ser Leu Gly Thr Lys Glu Gly Tyr Leu Thr Lys
 165 170 175
 Gln Gly Gly Leu Val Lys Thr Trp Lys Thr Arg Trp Phe Thr Leu His
 180 185 190
 Arg Asn Glu Leu Lys Tyr Phe Lys Asp Gln Met Ser Pro Glu Pro Ile
 195 200 205
 Arg Ile Leu Asp Leu Thr Glu Cys Ser Ala Val Gln Phe Asp Tyr Ser
 210 215 220
 Gln Glu Arg Val Asn Cys Phe Cys Leu Val Phe Pro Phe Arg Thr Phe
 225 230 235 240
 Tyr Leu Cys Ala Lys Thr Gly Val Glu Ala Asp Glu Trp Ile Lys Ile
 245 250 255

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Lys Lys Pro Lys Ala Arg Gln Phe Phe Leu Phe Asn Asp Ile Leu Val

50 55 60

Tyr Gly Asn Ile Val Ile Gln Lys Lys Lys Tyr Asn Lys Gln His Ile
65 70 75 80

Ile Pro Leu Glu Asn Val Thr Ile Asp Ser Ile Lys Asp Glu Gly Asp
 85 90 95

Leu Arg Asn Gly Trp Leu Ile Lys Thr Pro Thr Lys Ser Phe Ala Val
 100 105 110

Tyr Ala Ala Thr Ala Thr Glu Lys Ser Glu Trp Met Asn His Ile Asn
 115 120 125

Lys Cys Val Thr Asp Leu Leu Ser Lys Ser Gly Lys Thr Pro Ser Asn
130 135 140

Glu His Ala Ala Val Trp Val Pro Asp Ser Glu Ala Thr Val Cys Met
145 150 155 160

Arg Cys Gln Lys Ala Lys Phe Thr Pro Val Asn Arg Arg His His Cys
 165 170 175

Arg Lys Cys Gly Phe Val Val Cys Gly Pro Cys Ser Glu Lys Arg Phe
 180 185 190

Leu Leu Pro Ser Gln Ser Ser Lys Pro Val Arg Ile Cys Asp Phe Cys
195 200 205

Tyr Asp Leu Leu Ser Ala Gly Asp Met Ala Thr Cys Gln Pro Ala Arg
210 215 220

Ser Asp Ser Tyr Ser Gln Ser Leu Lys Ser Pro Leu Asn Asp Met Ser
225 230 235 240

Asp Asp Asp Asp Asp Asp Asp Ser Ser Asp
 245 250

<210> 78
<211> 224
<212> PRT
<213> Homo sapiens

<400> 78
Leu Asn Ile Leu Leu Arg Ile Asp Phe Asp Glu Gly Cys His Asn Glu
1 5 10 15

Arg Lys Val Thr Cys Lys His Pro Val Thr Gly Gln Pro Ser Gln Asp
 20 25 30

Asn Cys Ile Phe Val Val Asn Glu Gln Thr Val Ala Thr Met Thr Ser
35 40 45

Glu Glu Lys Lys Glu Arg Pro Ile Ser Met Ile Asn Glu Ala Ser Asn
50 55 60

Tyr Asn Val Thr Ser Asp Tyr Ala Val His Pro Met Ser Pro Val Gly
65 70 75 80

Arg Thr Ser Arg Ala Ser Lys Lys Val His Asn Phe Gly Lys Arg Ser
 85 90 95

Asn Ser Ile Lys Arg Asn Pro Asn Ala Pro Val Val Arg Arg Gly Trp
100 105 110

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<210> 79
<211> 354
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>

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<221> SITE
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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (251)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (342)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (354)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 79
 Ser Ala Thr Ser Ser Xaa Thr Thr Cys Ala Cys Thr Pro Pro Glu Pro
 1 5 10 15
 Xaa Pro Thr Thr Thr Glu Asp Glu Gly Leu Pro Ala Ala Xaa Pro Ile
 20 25 30
 Pro Xaa Arg Arg Ser Xaa Leu Xaa Xaa Thr Cys Phe Thr Thr Pro Ser
 35 40 45
 Thr Ala Ala Pro Asp Pro Val Leu Pro Pro Leu Pro Ala Lys Arg His
 50 55 60
 Leu Ala Glu Leu Ser Val Pro Pro Val Pro Pro Arg Thr Gly Pro Pro
 65 70 75 80
 Arg Leu Leu Val Ser Leu Pro Thr Lys Glu Glu Glu Ser Leu Leu Pro

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<210> 80
<211> 251
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (239)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (249)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 80
 Thr Ile Cys Phe Trp Lys Gln Asp Ser Arg Gly Arg Val Pro Ala Thr
 1 5 10 15
 Ala Asp Gln Ala Pro Arg Arg Thr Gln Ala Ser Thr Glu Gln Ala Glu
 20 25 30
 Thr Asp Asp Asn Met Asp Thr Lys Ser Ile Leu Glu Glu Leu Leu Leu
 35 40 45
 Lys Arg Ser Gln Gln Lys Lys Lys Met Ser Pro Xaa Asn Tyr Lys Glu
 50 55 60
 Arg Leu Phe Val Leu Thr Lys Thr Asn Leu Ser Tyr Tyr Glu Tyr Asp
 65 70 75 80
 Lys Met Lys Arg Gly Ser Arg Lys Gly Ser Ile Glu Ile Lys Lys Ile
 85 90 95
 Arg Cys Val Glu Lys Val Asn Leu Glu Glu Gln Thr Pro Val Glu Arg
 100 105 110
 Xaa Tyr Pro Phe Xaa Ile Val Xaa Lys Xaa Gly Leu Leu Tyr Val Tyr
 115 120 125
 Ala Ser Asn Glu Glu Ser Arg Ser Gln Trp Leu Lys Ala Leu Gln Lys
 130 135 140
 Glu Ile Arg Gly Asn Pro His Leu Leu Val Lys Tyr His Ser Gly Phe
 145 150 155 160
 Phe Val Asp Gly Lys Phe Leu Cys Cys Gln Gln Ser Cys Lys Ala Ala
 165 170 175

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<210> 81
<211> 268
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 81
Pro Arg Val Arg Leu Ala Glu Leu Leu Lys Tyr Thr Ala Gln Asp His
  1          5          10          15
Ser Asp Tyr Arg Tyr Val Ala Ala Ala Leu Ala Val Met Arg Asn Val
          20          25          30
Thr Gln Gln Ile Asn Glu Arg Lys Arg Arg Leu Glu Asn Ile Asp Lys
          35          40          45
Ile Ala Gln Trp Gln Ala Ser Val Leu Asp Trp Glu Gly Glu Asp Ile
  50          55          60
Leu Asp Arg Ser Ser Glu Leu Ile Tyr Thr Gly Glu Met Ala Trp Ile
  65          70          75          80
Tyr Gln Pro Tyr Xaa Arg Asn Gln Gln Arg Val Phe Phe Leu Phe Asp
          85          90          95
His Gln Met Val Leu Cys Lys Lys Asp Leu Ile Arg Arg Asp Ile Leu
          100          105          110
Tyr Tyr Lys Gly Arg Ile Asp Met Asp Lys Tyr Glu Val Val Asp Ile
          115          120          125
Glu Asp Gly Arg Asp Asp Asp Phe Asn Val Ser Met Lys Asn Ala Phe
          130          135          140
Lys Leu His Asn Lys Glu Thr Glu Glu Ile His Leu Phe Phe Ala Lys
  145          150          155          160
Lys Leu Glu Glu Lys Ile Arg Trp Leu Arg Ala Phe Arg Glu Glu Arg
          165          170          175
Lys Met Val Gln Glu Asp Glu Lys Ile Gly Phe Glu Ile Ser Glu Asn
          180          185          190
Gln Lys Arg Gln Ala Ala Met Thr Val Arg Lys Val Pro Lys Gln Lys
          195          200          205

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<210> 81
<211> 268
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 81
Pro Arg Val Arg Leu Ala Glu Leu Leu Lys Tyr Thr Ala Gln Asp His
  1          5          10          15
Ser Asp Tyr Arg Tyr Val Ala Ala Ala Leu Ala Val Met Arg Asn Val
          20          25          30
Thr Gln Gln Ile Asn Glu Arg Lys Arg Arg Leu Glu Asn Ile Asp Lys
          35          40          45
Ile Ala Gln Trp Gln Ala Ser Val Leu Asp Trp Glu Gly Glu Asp Ile
  50          55          60
Leu Asp Arg Ser Ser Glu Leu Ile Tyr Thr Gly Glu Met Ala Trp Ile
  65          70          75          80
Tyr Gln Pro Tyr Xaa Arg Asn Gln Gln Arg Val Phe Phe Leu Phe Asp
          85          90          95
His Gln Met Val Leu Cys Lys Lys Asp Leu Ile Arg Arg Asp Ile Leu
          100          105          110
Tyr Tyr Lys Gly Arg Ile Asp Met Asp Lys Tyr Glu Val Val Asp Ile
          115          120          125
Glu Asp Gly Arg Asp Asp Asp Phe Asn Val Ser Met Lys Asn Ala Phe
          130          135          140
Lys Leu His Asn Lys Glu Thr Glu Glu Ile His Leu Phe Phe Ala Lys
  145          150          155          160
Lys Leu Glu Glu Lys Ile Arg Trp Leu Arg Ala Phe Arg Glu Glu Arg
          165          170          175
Lys Met Val Gln Glu Asp Glu Lys Ile Gly Phe Glu Ile Ser Glu Asn
          180          185          190
Gln Lys Arg Gln Ala Ala Met Thr Val Arg Lys Val Pro Lys Gln Lys
          195          200          205

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Gly Val Asn Ser Ala Arg Ser Val Pro Pro Ser Tyr Pro Pro Pro Gln
 210 215 220
 Asp Pro Leu Asn His Gly Gln Tyr Leu Val Pro Asp Gly Ile Ala Gln
 225 230 235 240
 Ser Gln Val Phe Glu Phe Thr Glu Pro Lys Arg Ser Gln Ser Pro Phe
 245 250 255
 Trp Gln Asn Phe Ser Arg Leu Thr Pro Phe Lys Lys
 260 265

<210> 82
 <211> 380
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (365)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82
 Thr Leu Ser Val Leu Trp Phe Gln Cys Pro Ala Glu Glu His Ala Ala
 1 5 10 15

Glu Gln Glu Glu Ser His Pro Gln Ser Gly Gly Asp Pro Gly Asp Pro
 20 25 30

Gln Gly Trp Leu Thr Ile Asn Asn Ile Ser Leu Met Lys Gly Gly Ser
 35 40 45

Lys Glu Tyr Trp Phe Val Leu Thr Ala Glu Ser Leu Ser Trp Tyr Lys
 50 55 60

Asp Glu Glu Glu Lys Glu Lys Lys Tyr Met Leu Pro Leu Asp Asn Leu
 65 70 75 80

Lys Ile Arg Asp Val Glu Lys Gly Phe Met Ser Asn Lys His Val Phe
 85 90 95

Ala Ile Phe Asn Thr Glu Gln Arg Asn Val Tyr Lys Asp Leu Arg Gln
 100 105 110

Ile Glu Leu Ala Cys Xaa Ser Gln Glu Asp Val Asp Ser Trp Lys Ala
 115 120 125

Ser Phe Leu Xaa Ala Gly Val Tyr Pro Glu Lys Asp Gln Ala Glu Asn
 130 135 140

Glu Asp Gly Ala Gln Glu Asn Thr Phe Ser Met Asp Pro Gln Leu Glu
 145 150 155 160

Arg Gln Val Glu Thr Ile Arg Asn Leu Val Asp Ser Tyr Val Ala Ile

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165 170 175

Ile Asn Lys Ser Ile Arg Asp Leu Met Pro Lys Thr Ile Met His Leu
180 185 190

Met Ile Asn Asn Thr Lys Ala Phe Ile His His Glu Leu Leu Ala Tyr
195 200 205

Leu Tyr Ser Ser Ala Asp Gln Ser Ser Leu Met Glu Glu Ser Ala Asp
210 215 220

Gln Ala Gln Arg Arg Asp Asp Met Leu Arg Met Tyr His Ala Leu Lys
225 230 235 240

Glu Ala Leu Asn Ile Ile Gly Asp Ile Ser Thr Ser Thr Val Ser Thr
245 250 255

Pro Val Pro Pro Pro Val Asp Asp Thr Trp Leu Gln Ser Ala Ser Ser
260 265 270

His Ser Pro Thr Pro Gln Arg Arg Pro Val Ser Ser Ile His Pro Pro
275 280 285

Gly Arg Pro Pro Ala Val Arg Gly Pro Thr Pro Gly Pro Pro Leu Ile
290 295 300

Pro Val Pro Val Gly Ala Ala Ala Ser Phe Ser Ala Pro Pro Ile Pro
305 310 315 320

Ser Arg Pro Gly Pro Gln Ser Val Phe Ala Asn Ser Asp Leu Phe Pro
325 330 335

Ala Pro Pro Gln Ile Pro Ser Arg Pro Val Arg Ile Pro Pro Gly Ile
340 345 350

Pro Pro Gly Val Pro Ser Arg Arg Pro Pro Ala Ala Xaa Ser Arg Pro
355 360 365

Thr Ile Ile Arg Pro Ala Glu Pro Ser Leu Leu Asp
370 375 380

<210> 83
 <211> 229
 <212> PRT
 <213> Homo sapiens

<400> 83
 Arg Lys Ala Pro Gly Gly Phe Met Gly Pro Arg Trp Arg Arg Arg Trp
1 5 10 15

Phe Val Leu Lys Gly His Thr Leu Tyr Trp Tyr Arg Gln Pro Gln Asp
20 25 30

Glu Lys Ala Glu Gly Leu Ile Asn Val Ser Asn Tyr Ser Leu Glu Ser
35 40 45

Gly His Asp Gln Lys Lys Lys Tyr Val Phe Gln Leu Thr His Asp Val
50 55 60

Tyr Lys Pro Phe Ile Phe Ala Ala Asp Thr Leu Thr Asp Leu Ser Met
65 70 75 80

Trp Val Arg His Leu Ile Thr Cys Ile Ser Lys Tyr Gln Ser Pro Gly
85 90 95

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Arg	Ala	Pro	Pro	Arg	Glu	Glu	Asp	Cys	Tyr	Ser	Glu	Thr	Glu	Ala	
		100					105						110		
Glu	Asp	Pro	Asp	Asp	Glu	Ala	Gly	Ser	His	Ser	Ala	Ser	Pro	Ser	Pro
		115					120					125			
Ala	Gln	Ala	Gly	Ser	Pro	Leu	His	Gly	Asp	Thr	Ser	Pro	Ala	Ala	Thr
	130					135					140				
Pro	Thr	Gln	Arg	Ser	Pro	Arg	Thr	Ser	Phe	Gly	Ser	Leu	Thr	Asp	Ser
145					150					155					160
Ser	Glu	Glu	Ala	Leu	Glu	Gly	Met	Val	Arg	Gly	Leu	Arg	Gln	Gly	Gly
				165					170					175	
Val	Ser	Leu	Leu	Gly	Gln	Pro	Gln	Pro	Leu	Thr	Gln	Glu	Gln	Trp	Arg
			180					185					190		
Ser	Ser	Phe	Met	Arg	Arg	Asn	Arg	Asp	Pro	Gln	Leu	Asn	Glu	Arg	Val
		195					200					205			
His	Arg	Val	Arg	Ala	Leu	Gln	Ser	Thr	Leu	Lys	Val	Ser	Trp	Gly	Val
	210					215					220				
Gly	Thr	Ala	Arg	Asp											
225															
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<211> 119															
<212> PRT															
<213> Homo sapiens															
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<222> (10)															
<223> Xaa equals any of the naturally occurring L-amino acids															
<220>															
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<222> (112)															
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<222> (116)															
<223> Xaa equals any of the naturally occurring L-amino acids															
<400> 84															
Leu	Arg	Ala	Gly	Ser	Leu	Lys	Tyr	Ser	Xaa	Leu	Gln	Ala	Glu	Gly	Asn
1				5					10					15	
Phe	Asp	Pro	Ser	Cys	Cys	Phe	Thr	Ile	Tyr	His	Gly	Asn	His	Met	Glu
			20					25					30		
Ser	Leu	Asp	Leu	Ile	Thr	Ser	Asn	Pro	Glu	Glu	Ala	Arg	Thr	Trp	Ile
		35					40					45			
Thr	Gly	Leu	Lys	Tyr	Leu	Met	Ala	Gly	Ile	Ser	Asp	Glu	Asp	Ser	Leu
	50					55					60				
Ala	Lys	Arg	Gln	Arg	Thr	His	Asp	Gln	Trp	Val	Lys	Gln	Thr	Phe	Glu
65					70					75					80
Glu	Ala	Asp	Lys	Asn	Gly	Asp	Gly	Leu	Leu	Asn	Ile	Glu	Glu	Ile	His
				85					90					95	

Gln Leu Met His Lys Leu Asn Val Asn Leu Pro Arg Arg Lys Val Xaa
 100 105 110

Gln Met Phe Xaa Glu Ala Asp
 115

<210> 85
 <211> 257
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (212)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (231)
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<220>
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<220>
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 <222> (238)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (256)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
 Arg Gly Gly His Arg Leu Ser Gly Met Ala Ser Asn Phe Asn Asp Ile
 1 5 10 15

Val Lys Gln Gly Tyr Val Arg Ile Arg Ser Arg Arg Leu Gly Ile Tyr
 20 25 30

Gln Arg Cys Trp Leu Val Phe Lys Lys Ala Ser Ser Lys Gly Pro Lys
 35 40 45

Arg Leu Glu Lys Phe Ser Asp Glu Arg Ala Ala Tyr Phe Arg Cys Tyr
 50 55 60

His Lys Val Thr Glu Leu Asn Asn Val Lys Asn Val Ala Arg Leu Pro
 65 70 75 80

Lys Ser Thr Lys Lys His Ala Ile Gly Ile Tyr Phe Asn Asp Asp Thr
 85 90 95

Ser Lys Thr Phe Ala Cys Glu Ser Asp Leu Glu Ala Asp Glu Trp Cys
 100 105 110

Lys Val Leu Gln Met Glu Cys Val Gly Thr Arg Ile Asn Asp Ile Ser
 115 120 125

Leu Gly Glu Pro Asp Leu Leu Ala Thr Gly Val Glu Arg Glu Gln Ser
 130 135 140

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Glu Arg Phe Asn Val Tyr Leu Met Pro Ser Pro Asn Leu Asp Val His
 145 150 155 160
 Gly Glu Cys Ala Leu Gln Ile Thr Tyr Glu Tyr Ile Cys Leu Trp Asp
 165 170 175
 Val Gln Asn Pro Arg Val Lys Leu Ile Ser Trp Pro Leu Ser Ala Leu
 180 185 190
 Arg Arg Leu Trp Asp Val Asp Thr Thr Trp Phe Thr Phe Glu Gly Arg
 195 200 205
 Glu Asp Val Xaa Arg Leu Gly Glu Gly Ala Val Tyr Leu Phe Arg Pro
 210 215 220
 Glu Thr Gly Arg Ala Ile Xaa Ser Gly Lys Ser Xaa Leu Xaa Ala Leu
 225 230 235 240
 Ala His Arg Pro Arg Gln Ala Arg Ala Phe Ala Asn Arg Val Leu Xaa
 245 250 255

Lys

<210> 86
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 86
 Glu Glu Leu Thr Leu Glu Ile Leu Asp Arg Arg Asn Val Gly Ile Arg
 1 5 10 15
 Glu Lys Asp Tyr Trp Thr Cys Phe Glu Val Asn Glu Arg Glu Glu Ala
 20 25 30
 Glu Arg Pro Leu His Phe Ala Glu Lys Val Leu Pro Ile Leu His Gly
 35 40 45
 Leu Gly Thr Asp Ser His Leu Val Val Lys Lys His Gln Ala Met Glu
 50 55 60
 Ala Met Leu Leu Tyr Leu Ala Ser Arg Val Gly Asp Thr Lys His Gly
 65 70 75 80
 Met Met Lys Phe Arg Glu Asp Arg Ser Leu Leu Gly Leu Gly Leu Pro
 85 90 95
 Ser Gly Gly Phe His Asp Arg Tyr Phe Ile Leu Asn Ser Ser Cys Leu
 100 105 110
 Arg Leu Tyr Lys Glu Val Arg Ser His Arg Pro Glu Lys Glu Trp Pro
 115 120 125
 Ile Lys Ser Leu Lys Val Tyr Leu Gly Val Lys Lys Lys Leu Arg Pro
 130 135 140
 Pro Thr Cys Trp Gly Phe Thr Val Val His Glu Thr Glu Lys His Glu
 145 150 155 160
 Lys Gln Gln Trp Tyr Leu Cys Cys Asp Thr Gln Met Glu Leu Arg Glu
 165 170 175
 Trp Phe Ala Thr Phe Leu Phe Val Gln His Asp Gly Leu Val Trp Pro
 180 185 190

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Ser Glu Pro Ser Arg Val Ser Arg Ala Val Pro Glu Val Arg Leu Gly
 195 200 205
 Ser Val Ser Leu Ile Pro Leu Arg Gly Ser Glu Asn Glu Met Arg Arg
 210 215 220
 Ser Val Ala Ala Phe Thr Ala Asp Pro Leu Ser Leu Leu Arg Asn Val
 225 230 235 240

<210> 87
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 87
 Ser Asn Pro Pro Lys Ser Ser Ser Leu Ser Leu Ala Ser Ser Ala Ser
 1 5 10 15
 Thr Ile Ser Ser Leu Ser Ser Leu Ser Pro Lys Lys Pro Thr Arg Xaa
 20 25 30
 Val Asn Lys Ile His Ala Phe Gly Lys Arg Gly Asn Ala Leu Arg Arg
 35 40 45
 Asp Pro Asn Leu Pro Val His Ile Arg Gly Trp Leu His Lys Gln Asp
 50 55 60
 Ser Ser Gly Leu Arg Leu Trp Lys Arg Arg Trp Phe Val Leu Ser Gly
 65 70 75 80
 His Cys Leu Phe Tyr Tyr Lys Asp Ser Arg Glu Arg Val Ser
 85 90

<210> 88
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 88
 Leu Phe Pro Leu Val Val Leu Arg Gly Asp Ala Gln Gly Ala Pro Pro
 1 5 10 15
 Phe Lys Asn Trp Ile Met Asn Asn Phe Ile Leu Leu Xaa Glu Gln Leu
 20 25 30

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Ile Lys Lys Ser Gln Gln Lys Arg Arg Thr Ser Pro Ser Asn Phe Lys
 35 40 45
 Val Arg Phe Phe Val Leu Thr Lys Ala Ser Leu Ala Tyr Phe Glu Asp
 50 55 60
 Arg His Gly Lys Lys Arg Thr Leu Xaa Gly Val His
 65 70 75

<210> 89
 <211> 246
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Val Arg Thr Glu His Thr Gly Glu Leu Gln Lys Glu Glu Ala Met Ala
 1 5 10 15
 Ala Val Ile Leu Glu Ser Ile Phe Leu Lys Arg Ser Gln Gln Lys Lys
 20 25 30
 Lys Thr Ser Pro Leu Asn Phe Lys Lys Arg Leu Phe Leu Leu Thr Val
 35 40 45
 His Lys Leu Ser Tyr Tyr Glu Tyr Asp Phe Glu Arg Gly Arg Arg Gly
 50 55 60
 Ser Lys Lys Gly Ser Ile Asp Val Glu Lys Ile Thr Cys Val Glu Thr
 65 70 75 80
 Val Val Pro Glu Lys Asn Pro Pro Pro Glu Arg Gln Ile Pro Arg Arg
 85 90 95
 Gly Glu Glu Ser Ser Glu Met Glu Gln Ile Ser Ile Ile Glu Arg Phe
 100 105 110
 Pro Tyr Pro Phe Gln Val Val Tyr Asp Glu Xaa Pro Leu Tyr Val Phe
 115 120 125
 Ser Pro Thr Glu Glu Leu Arg Lys Arg Trp Ile His Gln Leu Lys Asn
 130 135 140
 Val Ile Arg Tyr Asn Ser Asp Leu Val Gln Lys Tyr His Pro Cys Phe
 145 150 155 160
 Trp Ile Asp Gly Gln Tyr Leu Cys Cys Ser Gln Thr Ala Lys Asn Ala
 165 170 175
 Met Gly Cys Gln Ile Leu Glu Asn Arg Asn Gly Ser Leu Lys Pro Gly
 180 185 190
 Ser Ser His Arg Lys Thr Lys Lys Pro Leu Pro Pro Thr Pro Glu Glu
 195 200 205
 Asp Gln Ile Leu Lys Lys Pro Xaa Pro Pro Glu Pro Ala Ala Ala Pro

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210 215 220
 Val Ser Thr Ser Gly Ala Gly Lys Arg Leu Trp Pro Phe Met Asp Tyr
 225 230 235 240
 Met Pro Met Asn Ala Lys
 245

<210> 90
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 90
 Lys Phe Glu Ile Trp Tyr Asn Ala Arg Glu Glu Val Tyr Ile Val Gln
 1 5 10 15

Ala Pro Thr Pro Glu Ile Lys Ala Ala Trp Val Asn Glu Ile Arg Lys
 20 25 30

Val Leu Thr Ser Gln Leu Gln Ala Cys Arg Glu Ala Ser Gln His Arg
 35 40 45

Ala Leu Glu Gln Ser Xaa Ser Leu Pro Leu Pro Ala Pro Thr Ser Thr
 50 55 60

Ser Pro Ser Arg
 65

<210> 91
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 91
 Gly Lys Arg Gly Asp Ser Pro Asp Pro Pro Ser Cys Ser Gln Ala Arg
 1 5 10 15

Ser Leu Thr Arg Tyr Leu Pro Ile Arg Lys Glu Asp Phe Xaa Leu Lys
 20 25 30

Thr His Ile Glu Ser Ser Gly His Gly Val Asp Thr Cys Xaa His Val
 35 40 45

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<210> 92
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400>	92															
His	Glu	Val	Leu	Phe	Leu	Gly	Met	Glu	Glu	Glu	Met	Val	Arg	Val	Thr	
1				5					10					15		
Xaa	Gly	Arg	Leu	Thr	Gly	Asp	Pro	Asp	Val	Leu	Glu	Tyr	Tyr	Lys	Asn	
			20					25					30			
Asp	His	Ala	Lys	Lys	Pro	Ile	Arg	Ile	Ile	Asp	Leu	Asn	Leu	Cys	Gln	
		35					40					45				
Gln	Val	Asp	Ala	Gly	Leu	Thr	Phe	Asn	Lys	Lys	Glu	Phe	Glu	Asn	Ser	
	50					55					60					
Tyr	Ile	Phe	Asp	Ile	Asn	Thr	Ile	Asp	Arg	Ile	Phe	Tyr	Leu	Val	Ala	
65					70					75					80	
Asp	Ser	Glu	Glu	Glu	Met	Asn	Lys	Trp	Val	Arg	Cys	Ile	Cys	Asp	Ile	
				85					90					95		
Xaa	Gly	Phe	Asn	Pro	Thr	Glu	Glu	Gly	Lys	Phe	Lys	Ile	Leu	Leu	Phe	
			100					105					110			

Xaa Leu Xaa Phe Phe Phe Ser Gly Tyr Ile Ser Arg Asn Val Ile Thr
 115 120 125

Ile Leu Cys Tyr Phe Ser Tyr Thr Ile
 130 135

<210> 93
 <211> 304
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 1 5 10 15

Leu Tyr Asp Leu Xaa Tyr Tyr Ser Phe Phe Asp Leu Asn Pro Lys Tyr
 20 25 30

Asp Ala Val Arg Ile Asn Gln Leu Tyr Glu Gln Ala Arg Trp Ala Ile
 35 40 45

Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Leu Ile Phe Ala
 50 55 60

Ala Leu Gln Tyr His Ile Ser Lys Leu Ser Leu Ser Ala Glu Thr Gln
 65 70 75 80

Asp Phe Ala Gly Glu Ser Glu Val Asp Glu Ile Glu Ala Ala Leu Ser
 85 90 95

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<210> 94
<211> 302
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 94

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Ser Gln Ile Ser Thr Thr Thr Phe Glu Ser Ala Ile Thr Pro Ser Glu
35 40 45

Ser Ser Gly Tyr Asp Ser Gly Asp Ile Glu Ser Leu Val Asp Arg Glu
50 55 60

Lys Glu Leu Ala Thr Lys Cys Leu Gln Leu Leu Thr His Thr Phe Asn
65 70 75 80

Arg Glu Phe Ser Gln Val His Gly Ser Val Ser Asp Cys Lys Leu Ser
85 90 95

Asp Ile Ser Pro Ile Gly Arg Asp Pro Ser Glu Ser Ser Phe Ser Ser
100 105 110

Ala Thr Leu Thr Pro Ser Ser Thr Cys Pro Ser Leu Val Asp Ser Arg
115 120 125

Ser Asn Ser Leu Asp Gln Lys Thr Pro Glu Ala Asn Ser Arg Ala Ser
130 135 140

Ser Pro Cys Pro Glu Phe Glu Gln Phe Gln Ile Val Pro Ala Val Glu
145 150 155 160

Thr Pro Tyr Leu Ala Arg Ala Gly Lys Asn Glu Phe Leu Asn Leu Val
165 170 175

Pro Asp Ile Glu Glu Ile Arg Pro Ser Ser Val Val Ser Lys Lys Gly
180 185 190

Tyr Leu His Phe Lys Glu Pro Leu Tyr Ser Asn Trp Ala Lys His Phe
195 200 205

Val Val Val Arg Arg Pro Tyr Val Phe Ile Tyr Asn Ser Asp Lys Asp
210 215 220

Pro Val Glu Arg Gly Ile Ile Asn Leu Ser Thr Ala Gln Val Glu Tyr
225 230 235 240

Ser Glu Asp Gln Gln Ala Met Val Lys Thr Pro Asn Thr Phe Ala Val
245 250 255

Xaa Thr Lys His Arg Gly Xaa Leu Leu Gln Ala Leu Asn Xaa Lys Asp
260 265 270

Met Asn Asp Trp Xaa Xaa Ala Phe Asn Pro Leu Leu Ala Gly Thr Ile
275 280 285

Arg Ser Lys Leu Ser Arg Arg Cys Pro Ser Gln Ser Lys Tyr
290 295 300

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<210> 96
<211> 492
<212> PRT
<213> Homo sapiens
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Ala	Ile	Val	Lys	Glu	Gly	Trp	Leu	His	Lys	Arg	Gly	Glu	Tyr	Ile	Lys	
			20					25					30			
Thr	Trp	Arg	Pro	Arg	Tyr	Phe	Leu	Leu	Lys	Asn	Asp	Gly	Thr	Phe	Ile	
		35					40					45				
Gly	Tyr	Lys	Glu	Arg	Pro	Gln	Asp	Val	Asp	Gln	Arg	Glu	Ala	Pro	Leu	
	50					55					60					
Asn	Asn	Phe	Ser	Val	Ala	Gln	Cys	Gln	Leu	Met	Lys	Thr	Glu	Arg	Pro	
65					70					75					80	
Arg	Pro	Asn	Thr	Phe	Ile	Ile	Arg	Cys	Leu	Gln	Trp	Thr	Thr	Val	Ile	
				85					90					95		
Glu	Arg	Thr	Phe	His	Val	Glu	Thr	Pro	Glu	Glu	Arg	Glu	Glu	Trp	Thr	
			100					105					110			

Thr	Ala	Ile 115	Gln	Thr	Val	Ala	Asp 120	Gly	Leu	Lys	Lys	Gln 125	Glu	Glu	Glu
Glu	Met 130	Asp	Phe	Arg	Ser	Gly 135	Ser	Pro	Ser	Asp	Asn 140	Ser	Gly	Ala	Glu
Glu 145	Met	Glu	Val	Ser	Leu 150	Ala	Lys	Pro	Lys	His 155	Arg	Val	Thr	Met	Asn 160
Glu	Phe	Glu	Tyr	Leu 165	Lys	Leu	Leu	Gly	Lys 170	Gly	Thr	Phe	Gly	Lys 175	Val
Ile	Leu	Val	Lys 180	Glu	Lys	Ala	Thr	Gly 185	Arg	Tyr	Tyr	Ala	Met 190	Lys	Ile
Leu	Lys	Lys 195	Glu	Val	Ile	Val	Ala 200	Lys	Asp	Glu	Val	Ala 205	His	Thr	Leu
Thr	Glu 210	Asn	Arg	Val	Leu	Gln 215	Asn	Ser	Arg	His	Pro 220	Phe	Leu	Thr	Ala
Leu 225	Lys	Tyr	Ser	Phe	Gln 230	Thr	His	Asp	Arg	Leu 235	Cys	Phe	Val	Met	Glu 240
Tyr	Ala	Asn	Gly	Gly 245	Glu	Leu	Phe	Phe	His 250	Leu	Ser	Arg	Glu	Arg 255	Val
Phe	Ser	Glu	Asp 260	Arg	Ala	Arg	Phe	Tyr 265	Gly	Ala	Glu	Ile	Val 270	Ser	Ala
Leu	Asp	Tyr 275	Leu	His	Ser	Glu	Lys 280	Asn	Val	Val	Tyr	Arg 285	Asp	Leu	Lys
Leu	Glu 290	Asn	Leu	Met	Leu	Asp 295	Lys	Asp	Gly	His	Ile 300	Lys	Ile	Thr	Asp
Phe 305	Gly	Leu	Cys	Lys	Glu 310	Gly	Ile	Lys	Asp	Gly 315	Ala	Thr	Met	Lys	Thr 320
Phe	Cys	Gly	Thr	Pro 325	Glu	Tyr	Leu	Ala	Pro 330	Glu	Val	Leu	Glu	Asp 335	Asn
Asp	Tyr	Gly	Arg 340	Ala	Val	Asp	Trp	Trp 345	Gly	Leu	Gly	Val	Val 350	Met	Tyr
Glu	Met	Met 355	Cys	Gly	Arg	Leu	Pro 360	Phe	Tyr	Asn	Gln	Asp 365	His	Glu	Lys
Leu	Phe 370	Glu	Leu	Ile	Leu	Met 375	Glu	Glu	Ile	Arg	Phe 380	Pro	Arg	Thr	Leu
Gly 385	Pro	Glu	Ala	Lys	Ser 390	Leu	Leu	Ser	Gly	Leu 395	Leu	Lys	Lys	Asp	Pro 400
Lys	Gln	Arg	Leu	Gly 405	Gly	Gly	Ser	Glu	Asp 410	Ala	Lys	Glu	Ile	Met 415	Gln
His	Arg	Phe	Phe 420	Ala	Gly	Ile	Val	Trp 425	Gln	His	Val	Tyr	Glu 430	Lys	Lys
Leu	Ser	Pro 435	Pro	Phe	Lys	Pro	Gln 440	Val	Thr	Ser	Glu	Thr 445	Asp	Thr	Arg
Tyr	Phe 450	Asp	Glu	Glu	Phe	Thr 455	Ala	Gln	Met	Ile	Thr 460	Ile	Thr	Pro	Pro

Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly Thr Ala
485 490

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<210> 97
<211> 254
<212> PRT
<213> Homo sapiens
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<222> (244)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (248)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400>	97															
Pro	Thr	Arg	Pro	Pro	Thr	Arg	Pro	Pro	Thr	Arg	Pro	Ser	Arg	Arg	Gly	
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Ile	Ala	Val	Ala	Ser	Trp	Cys	Ser	Pro	Arg	Trp	Phe	Ala	Gly	Glu	Glu	
			20					25					30			
Met	Ala	Phe	Val	Lys	Ser	Gly	Trp	Leu	Leu	Arg	Gln	Ser	Thr	Ile	Leu	
		35					40					45				
Lys	Arg	Trp	Lys	Lys	Asn	Trp	Phe	Asp	Leu	Trp	Ser	Asp	Gly	His	Leu	
	50					55					60					
Ile	Tyr	Tyr	Asp	Asp	Gln	Thr	Arg	Gln	Asn	Ile	Glu	Asp	Lys	Val	His	
65					70					75					80	
Met	Pro	Met	Asp	Cys	Ile	Asn	Ile	Arg	Thr	Gly	Gln	Glu	Cys	Arg	Asp	
				85					90					95		
Thr	Gln	Pro	Pro	Asp	Gly	Lys	Ser	Lys	Asp	Cys	Met	Leu	Gln	Ile	Val	
			100					105					110			
Cys	Arg	Asp	Gly	Lys	Thr	Ile	Ser	Leu	Cys	Ala	Glu	Ser	Thr	Asp	Asp	
		115					120					125				
Cys	Leu	Ala	Trp	Lys	Phe	Thr	Leu	Gln	Asp	Ser	Arg	Thr	Asn	Thr	Ala	
	130					135					140					
Tyr	Val	Gly	Ser	Ala	Val	Met	Thr	Asp	Glu	Thr	Ser	Val	Val	Ser	Ser	
145					150					155					160	
Pro	Pro	Pro	Tyr	Thr	Ala	Tyr	Ala	Ala	Pro	Ala	Pro	Glu	Gln	Ala	Tyr	
				165					170					175		
Gly	Tyr	Gly	Pro	Tyr	Gly	Gly	Ala	Tyr	Pro	Pro	Gly	Thr	Gln	Val	Val	
			180					185					190			
Tyr	Ala	Ala	Asn	Gly	Gln	Ala	Tyr	Ala	Val	Pro	Tyr	Gln	Tyr	Pro	Tyr	
		195					200					205				
Ala	Gly	Leu	Tyr	Gly	Gln	Gln	Pro	Ala	Asn	Gln	Val	Ile	Ile	Arg	Glu	
	210					215					220					
Arg	Tyr	Arg	Asp	Asn	Asp	Ser	Asp	Leu	Ala	Leu	Gly	Met	Leu	Ala	Gly	

225						230						235					240
Ala	Ala	Thr	Xaa	Met	Ala	Leu	Xaa	Ser	Leu	Phe	Trp	Val	Phe				
				245					250								
<210> 98																	
<211> 705																	
<212> PRT																	
<213> Homo sapiens																	
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<222> (27)																	
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<220>																	
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<222> (290)																	
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<400> 98																	
Met	Ala	Met	Glu	Lys	Ser	Lys	Ala	Thr	Pro	Ala	Ala	Arg	Ala	Ser	Lys		
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Lys	Ile	Leu	Leu	Pro	Glu	Pro	Ser	Ile	Arg	Xaa	Val	Met	Gln	Lys	Tyr		
			20					25					30				
Leu	Glu	Asp	Arg	Gly	Glu	Val	Thr	Phe	Glu	Lys	Ile	Phe	Ser	Gln	Lys		
		35					40					45					
Leu	Gly	Tyr	Leu	Leu	Phe	Arg	Asp	Phe	Cys	Leu	Asn	His	Leu	Glu	Glu		
	50					55					60						
Ala	Arg	Pro	Leu	Val	Glu	Phe	Tyr	Glu	Glu	Ile	Lys	Lys	Tyr	Glu	Lys		
	65				70					75					80		
Leu	Glu	Thr	Glu	Glu	Glu	Arg	Val	Ala	Arg	Ser	Arg	Glu	Ile	Phe	Asp		
				85					90					95			
Ser	Tyr	Ile	Met	Lys	Glu	Leu	Leu	Ala	Cys	Ser	His	Pro	Phe	Ser	Lys		
			100					105					110				
Ser	Ala	Thr	Glu	His	Val	Gln	Gly	His	Leu	Gly	Lys	Lys	Gln	Val	Pro		
		115					120					125					
Pro	Asp	Leu	Phe	Gln	Pro	Tyr	Ile	Glu	Glu	Ile	Cys	Gln	Asn	Leu	Arg		
	130					135					140						
Gly	Asp	Val	Phe	Gln	Lys	Phe	Ile	Glu	Ser	Asp	Lys	Phe	Thr	Arg	Phe		
145				150						155					160		
Cys	Gln	Trp	Lys	Asn	Val	Glu	Leu	Asn	Ile	His	Leu	Thr	Met	Asn	Asp		
				165				170						175			
Phe	Ser	Val	His	Arg	Ile	Ile	Gly	Arg	Gly	Gly	Phe	Gly	Glu	Val	Tyr		
			180					185					190				
Gly	Cys	Arg	Lys	Ala	Asp	Thr	Gly	Lys	Met	Tyr	Ala	Met	Lys	Cys	Leu		
		195					200					205					
Asp	Lys	Lys	Arg	Ile	Lys	Met	Lys	Gln	Gly	Glu	Thr	Leu	Ala	Leu	Asn		
	210					215					220						
Glu	Arg	Ile	Met	Leu	Ser	Leu	Val	Ser	Thr	Gly	Asp	Cys	Pro	Phe	Ile		
225					230					235					240		

Val	Cys	Met	Ser	Tyr	Ala	Phe	His	Thr	Pro	Asp	Lys	Leu	Ser	Phe	Ile	
				245					250					255		
Leu	Asp	Leu	Met	Asn	Gly	Gly	Asp	Leu	His	Tyr	His	Leu	Ser	Gln	His	
			260					265					270			
Gly	Val	Phe	Ser	Glu	Ala	Asp	Met	Arg	Phe	Tyr	Ala	Ala	Glu	Ile	Ile	
		275					280					285				
Leu	Xaa	Leu	Glu	His	Met	His	Asn	Arg	Phe	Val	Val	Tyr	Arg	Asp	Leu	
	290					295					300					
Lys	Pro	Ala	Asn	Ile	Leu	Leu	Asp	Glu	His	Gly	His	Val	Arg	Ile	Ser	
305					310					315					320	
Asp	Leu	Gly	Leu	Ala	Cys	Asp	Phe	Ser	Lys	Lys	Lys	Pro	His	Ala	Ser	
				325					330					335		
Val	Gly	Thr	Gln	Gly	Tyr	Met	Ala	Pro	Glu	Val	Leu	Gln	Lys	Gly	Val	
			340					345					350			
Ala	Tyr	Asp	Ser	Ser	Ala	Asp	Trp	Phe	Ser	Leu	Gly	Cys	Met	Leu	Phe	
		355					360					365				
Lys	Leu	Leu	Arg	Gly	His	Ser	Pro	Phe	Arg	Gln	His	Lys	Thr	Lys	Asp	
	370					375					380					
Lys	His	Glu	Ile	Asp	Arg	Met	Thr	Leu	Thr	Met	Ala	Val	Glu	Leu	Pro	
385					390					395					400	
Asp	Ser	Phe	Ser	Pro	Glu	Leu	Arg	Ser	Leu	Leu	Glu	Gly	Leu	Leu	Gln	
				405					410					415		
Arg	Asp	Val	Asn	Arg	Arg	Leu	Gly	Cys	Leu	Gly	Arg	Gly	Ala	Gln	Glu	
			420					425					430			
Val	Lys	Glu	Ser	Pro	Phe	Phe	Arg	Ser	Leu	Asp	Trp	Gln	Met	Val	Phe	
		435					440					445				
Leu	Gln	Lys	Tyr	Pro	Pro	Pro	Leu	Ile	Pro	Pro	Arg	Gly	Glu	Val	Asn	
	450					455					460					
Ala	Ala	Asp	Ala	Phe	Asp	Ile	Gly	Ser	Phe	Asp	Glu	Glu	Asp	Thr	Lys	
465					470					475					480	
Gly	Ile	Lys	Leu	Leu	Asp	Ser	Asp	Gln	Glu	Leu	Tyr	Arg	Asn	Phe	Pro	
				485					490				495			
Leu	Thr	Ile	Ser	Glu	Arg	Trp	Gln	Gln	Glu	Val	Ala	Glu	Thr	Val	Phe	
			500					505					510			
Asp	Thr	Ile	Asn	Ala	Glu	Thr	Asp	Arg	Leu	Glu	Ala	Arg	Lys	Lys	Ala	
		515					520					525				
Lys	Asn	Lys	Gln	Leu	Gly	His	Glu	Glu	Asp	Tyr	Ala	Leu	Gly	Lys	Asp	
	530					535					540					
Cys	Ile	Met	His	Gly	Tyr	Met	Ser	Lys	Met	Gly	Asn	Pro	Phe	Leu	Thr	
545					550					555					560	
Gln	Trp	Gln	Arg	Arg	Tyr	Phe	Tyr	Leu	Phe	Pro	Asn	Arg	Leu	Glu	Trp	
				565					570					575		
Arg	Gly	Glu	Gly	Glu	Ala	Pro	Gln	Ser	Leu	Leu	Thr	Met	Glu	Glu	Ile	
			580					585					590			

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Gln Ser Val Glu Glu Thr Gln Ile Lys Glu Arg Lys Cys Leu Leu Leu
595 600 605

Lys Ile Arg Gly Gly Lys Gln Phe Ile Leu Gln Cys Asp Ser Asp Pro
610 615 620

Glu Leu Val Gln Trp Lys Lys Glu Leu Arg Asp Pro Thr Ala Ser Pro
625 630 635 640

Ala Ala Gly Ala Ala Gly Ala Gln Asp Glu Glu Gln Ala Ala Leu Ala
645 650 655

Arg Gly Gly Ala Glu Gln Gly Ala Ala Gly Pro Ala Arg Gln Cys Gln
660 665 670

Arg Pro Leu Thr Arg Pro Pro Ala Phe Tyr Lys Pro Leu Ile Tyr Phe
675 680 685

Val Glu Phe Leu Leu Phe Val Phe Pro Pro Ser Gly Lys Gly Phe Ile
690 695 700

Leu
705

<210> 99
<211> 558
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 99
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Ser Gln Glu Glu Met Asp Gln Ala Leu Ala Glu Ser Ser Glu Glu Gln
20 25 30

Glu Asp Ala Leu Asn Ile Ser Ser Met Ser Leu Leu Ala Pro Leu Ala
35 40 45

Gln Thr Val Gly Val Val Ser Pro Glu Ser Leu Val Ser Thr Pro Arg
50 55 60

Leu Glu Leu Lys Asp Thr Ser Arg Ser Asp Glu Ser Pro Lys Pro Gly
65 70 75 80

Lys Phe Gln Arg Thr Arg Val Pro Arg Ala Glu Ser Gly Asp Ser Leu
85 90 95

Gly Ser Glu Asp Arg Asp Leu Leu Tyr Ser Ile Asp Ala Tyr Arg Ser
100 105 110

Gln Arg Phe Lys Glu Thr Glu Arg Pro Ser Ile Lys Xaa Val Ile Val
115 120 125

Arg Lys Glu Asp Val Thr Ser Lys Leu Asp Glu Lys Asn Asn Ala Phe
130 135 140

Pro Cys Gln Val Asn Ile Lys Gln Lys Met Gln Glu Leu Asn Asn Glu
145 150 155 160

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Ile	Asn	Met	Gln	Gln 165	Thr	Val	Ile	Tyr	Gln 170	Ala	Ser	Gln	Ala	Leu 175	Asn
Cys	Cys	Val	Asp 180	Glu	Glu	His	Gly	Lys 185	Gly	Ser	Leu	Glu	Glu 190	Ala	Glu
Ala	Glu	Arg 195	Leu	Leu	Leu	Ile	Ala 200	Thr	Gly	Lys	Arg	Thr 205	Leu	Leu	Ile
Asp	Glu 210	Leu	Asn	Lys	Leu	Lys 215	Asn	Glu	Gly	Pro	Gln 220	Arg	Lys	Asn	Lys
Ala 225	Ser	Pro	Gln	Ser	Glu 230	Phe	Met	Pro	Ser	Lys 235	Gly	Ser	Val	Thr	Leu 240
Ser	Glu	Ile	Arg	Leu 245	Pro	Leu	Lys	Ala	Asp 250	Phe	Val	Cys	Ser	Thr 255	Val
Gln	Lys	Pro	Asp 260	Ala	Ala	Asn	Tyr	Tyr 265	Tyr	Leu	Ile	Ile	Leu 270	Lys	Ala
Gly	Ala	Glu 275	Asn	Met	Val	Ala	Thr 280	Pro	Leu	Ala	Ser	Thr 285	Ser	Asn	Ser
Leu	Asn 290	Gly	Asp	Ala	Leu	Thr 295	Phe	Thr	Thr	Thr	Phe 300	Thr	Leu	Gln	Asp
Val 305	Ser	Asn	Asp	Phe	Glu 310	Ile	Asn	Ile	Glu	Val 315	Tyr	Ser	Leu	Val	Gln 320
Lys	Lys	Asp	Pro	Ser 325	Gly	Leu	Asp	Lys	Lys 330	Lys	Lys	Thr	Ser	Lys 335	Ser
Lys	Ala	Ile	Thr 340	Pro	Lys	Arg	Leu	Leu 345	Thr	Ser	Ile	Thr	Thr 350	Lys	Ser
Asn	Ile	His 355	Ser	Ser	Val	Met	Ala 360	Ser	Pro	Gly	Gly	Leu 365	Ser	Ala	Val
Arg	Thr 370	Ser	Asn	Phe	Ala	Leu 375	Val	Gly	Ser	Tyr	Thr 380	Leu	Ser	Leu	Ser
Ser 385	Val	Gly	Asn	Thr	Lys 390	Phe	Val	Leu	Asp	Lys 395	Val	Pro	Phe	Leu	Ser 400
Ser	Leu	Glu	Gly	His 405	Ile	Tyr	Leu	Lys	Ile 410	Lys	Cys	Gln	Val	Asn 415	Ser
Ser	Val	Glu	Glu 420	Arg	Gly	Phe	Leu	Thr 425	Ile	Phe	Glu	Asp	Val 430	Ser	Gly
Phe	Gly	Ala 435	Trp	His	Arg	Arg	Trp 440	Cys	Val	Leu	Ser	Gly 445	Asn	Cys	Ile
Ser	Tyr 450	Trp	Thr	Tyr	Pro	Asp 455	Asp	Glu	Lys	Arg	Lys 460	Asn	Pro	Ile	Gly
Arg 465	Ile	Asn	Leu	Ala	Asn 470	Cys	Thr	Ser	Arg	Gln 475	Ile	Glu	Pro	Ala	Asn 480
Arg	Glu	Phe	Cys	Ala 485	Arg	Arg	Asn	Thr	Phe 490	Glu	Leu	Ile	Thr	Val 495	Arg
Pro	Gln	Arg	Glu 500	Asp	Asp	Arg	Glu	Thr 505	Leu	Val	Ser	Gln 510	Cys	Arg	Asp

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Ala Asp Ala Trp Ala Asp Ala Trp Val Asn Asp Thr Val Val Pro Thr
1 5 10 15

Ser Pro Ser Ala Asp Ser Thr Val Leu Leu Ala Pro Ser Val Gln Asp
 20 25 30
 Ser Gly Ser Leu His Asn Ser Ser Ser Gly Glu Ser Thr Tyr Cys Met
 35 40 45
 Pro Gln Asn Ala Gly Asp Leu Pro Ser Pro Asp Gly Asp Tyr Asp Tyr
 50 55 60
 Asp Gln Asp Asp Tyr Glu Asp Gly Ala Ile Thr Ser Gly Ser Ser Val
 65 70 75 80
 Thr Phe Ser Asn Ser Tyr Gly Ser Gln Trp Ser Pro Asp Tyr Arg Cys
 85 90 95
 Ser Val Gly Thr Tyr Asn Ser Ser Gly Ala Tyr Arg Phe Ser Ser Glu
 100 105 110
 Gly Ala Gln Ser Ser Phe Glu Asp Ser Glu Glu Asp Phe Asp Ser Arg
 115 120 125
 Phe Asp Thr Asp Asp Glu Leu Ser Tyr Arg Arg Asp Ser Val Tyr Ser
 130 135 140
 Cys Val Thr Leu Pro Tyr Phe His Ser Phe Leu Tyr Met Lys Gly Gly
 145 150 155 160
 Leu Met Asn Ser Trp Lys Arg Arg Trp Cys Val Leu Lys Asp Glu Thr
 165 170 175
 Phe Leu Trp Phe Arg Ser Lys Gln Glu Ala Leu Lys Gln Gly Trp Leu
 180 185 190
 His Lys Lys Gly Gly Gly Ser Ser Thr Leu Ser Arg Arg Asn Trp Lys
 195 200 205
 Lys Arg Trp Phe Val Leu Arg Gln Ser Lys Leu Met Tyr Phe Glu Asn
 210 215 220
 Asp Ser Glu Glu Lys Leu Lys Gly Thr Val Glu Val Arg Thr Ala Lys
 225 230 235 240
 Glu Ile Ile Asp Asn Thr Thr Lys Glu Asn Gly Ile Asp Ile Ile Met
 245 250 255
 Ala Asp Arg Thr Phe His Leu Ile Ala Glu Ser Pro Glu Asp Ala Ser
 260 265 270
 Gln Trp Phe Ser Val Leu Ser Gln Val His Ala Ser Thr Asp Gln Glu
 275 280 285
 Ile Gln Glu Met His Asp Glu Gln Ala Asn Pro Gln Asn Ala Val Gly
 290 295 300
 Thr Leu Asp Val Gly Leu Ile Asp Ser Val Cys Ala Ser Asp Ser Pro
 305 310 315 320
 Asp Arg Pro Asn Ser Phe Val Ile Ile Thr Ala Asn Arg Val Leu His
 325 330 335
 Cys Asn Ala Asp Thr Pro Glu Arg Cys Thr Thr Gly
 340 345

<210> 102

<211> 128

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<212> PRT
<213> Homo sapiens

<400> 102

Asp Pro Arg Val Arg Trp Ser Trp Glu Pro Phe Pro Ser Glu Gln Gln
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Pro Cys Pro Ala Ser Val Leu Ser Ser Gln Gln Gly Lys Ser Ile Ser
20 25 30
Leu Ile Met Glu Glu Asn Asn Asp Ser Thr Glu Asn Pro Gln Gln Gly
35 40 45
Gln Gly Arg Gln Asn Ala Ile Lys Cys Gly Trp Leu Arg Lys Gln Gly
50 55 60
Gly Phe Val Lys Thr Trp His Thr Arg Trp Phe Val Leu Lys Gly Asp
65 70 75 80
Gln Leu Tyr Tyr Ser Lys Met Lys Met Lys Pro Ser Pro Trp Val Leu
85 90 95
Phe Phe Cys Leu Glu Ile Lys Phe Ser Glu His Pro Cys Asn Glu Glu
100 105 110
Asn Pro Gly Lys Phe Leu Phe Glu Val Val Pro Gly Lys Ile Phe Ser
115 120 125

<210> 103
<211> 143
<212> PRT
<213> Homo sapiens

<400> 103

His Ala Ser Asp His Leu Phe Phe Phe Ala Phe Ser Tyr Cys Trp Ser
1 5 10 15
Trp Glu Pro Phe Pro Ser Glu Gln Gln Pro Cys Pro Ala Ser Val Leu
20 25 30
Ser Ser Gln Gln Gly Lys Ser Ile Ser Leu Ile Met Glu Glu Asn Asn
35 40 45
Asp Ser Thr Glu Asn Pro Gln Gln Gly Gln Gly Arg Gln Asn Ala Ile
50 55 60
Lys Cys Gly Trp Leu Arg Lys Gln Gly Gly Phe Val Lys Thr Trp His
65 70 75 80
Thr Arg Trp Phe Val Leu Lys Gly Asp Gln Leu Tyr Tyr Phe Lys Asp
85 90 95
Glu Asp Glu Thr Lys Pro Leu Gly Thr Ile Phe Leu Pro Gly Asn Lys
100 105 110
Val Ser Glu His Pro Cys Asn Glu Glu Asn Pro Gly Lys Phe Leu Phe
115 120 125
Glu Val Val Pro Gly Arg Arg Ser Arg Ser Asp Asp Ser Lys Ser
130 135 140

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<400> 104																
Gly	Arg	Trp	Ala	Ala	Pro	Ser	Ser	Arg	Leu	Ala	Pro	Gln	Leu	Pro	Pro	
1				5					10					15		
Thr	Thr	Ala	Ala	Glu	Arg	Ser	Trp	Gly	Leu	Thr	Arg	Arg	Leu	Arg	Gly	
			20					25					30			
Leu	Gly	Pro	Arg	Arg	Arg	Gly	Asp	Leu	Gly	Gly	Thr	Gly	Ser	Leu	Arg	
		35					40					45				
Pro	Ala	Ser	Leu	Gly	Ala	Pro	His	Gly	Ile	Cys	Arg	Phe	Thr	Glu	Trp	
	50					55					60					
Leu	His	Ile	Asn	Gly	Lys	Arg	Ser	Ile	Asn	Leu	Ser	Ser	Phe	Ile	Met	
65					70					75					80	
Glu	Gly	Gly	Leu	Ala	Asp	Gly	Glu	Pro	Asp	Arg	Thr	Ser	Leu	Leu	Gly	
				85					90					95		
Asp	Ser	Lys	Asp	Val	Leu	Gly	Pro	Ser	Thr	Val	Val	Ala	Asn	Ser	Asp	
			100					105					110			
Glu	Ser	Gln	Leu	Leu	Thr	Pro	Gly	Lys	Met	Ser	Gln	Arg	Gln	Gly	Lys	
		115					120					125				
Glu	Ala	Tyr	Pro	Thr	Pro	Thr	Lys	Asp	Leu	His	Gln	Pro	Ser	Leu	Ser	
	130					135					140					
Pro	Ala	Ser	Pro	His	Ser	Gln	Gly	Phe	Glu	Arg	Gly	Lys	Glu	Asp	Ile	
145				150						155					160	
Ser	Gln	Asn	Lys	Asp	Glu	Ser	Ser	Leu	Ser	Met	Ser	Lys	Ser	Lys	Ser	
				165					170					175		
Glu	Ser	Lys	Leu	Tyr	Asn	Gly	Ser	Glu	Lys	Asp	Ser	Ser	Thr	Ser	Ser	
		180						185					190			

Lys Leu Thr Lys Lys Glu Ser Leu Lys Val Gln Lys Lys Asn Tyr Arg
 195 200 205
 Glu Glu Lys Lys Arg Ala Thr Lys Glu Leu Leu Ser Thr Ile Thr Asp
 210 215 220
 Pro Ser Val Ile Val Met Ala Asp Trp Leu Lys Ile Arg Gly Thr Leu
 225 230 235 240
 Lys Ser Trp Thr Lys Xaa Trp Cys Val Leu Lys Pro Gly Val Leu Leu
 245 250 255
 Ile Tyr Lys Thr Gln Lys Asn Gly Gln Trp Val Gly Thr Val Leu Leu
 260 265 270
 Asn Ala Cys Glu Ile Ile Glu Arg Pro Ser Lys Lys Asp Gly Phe Cys
 275 280 285
 Phe Lys Leu Phe His Pro Leu Glu Gln Ser Ile Trp Ala Val Lys Gly
 290 295 300
 Pro Lys Gly Glu Ala Val Gly Ser Ile Thr Gln Pro Leu Pro Ser Ser
 305 310 315 320
 Tyr Leu Ile Ile Arg Ala Thr Ser Glu Ser Asp Gly Arg Cys Trp Met
 325 330 335
 Asp Ala Leu Glu Leu Ala Leu Lys Cys Ser Ser Leu Leu Lys Arg Thr
 340 345 350
 Met Ile Arg Glu Gly Lys Glu His Asp Leu Ser Val Ser Ser Asp Ser
 355 360 365
 Thr His Val Thr Xaa Xaa Gly Leu Leu Arg Ala Xaa Asn Leu His Ser
 370 375 380
 Gly Asp Asn Phe Gln Leu Asn Asp Ser Glu Ile Glu Arg Gln His Phe
 385 390 395 400
 Lys Asp Gln Asp Met Tyr Ser Asp Lys Ser Asp Lys Glu Asn Asp Gln
 405 410 415
 Glu His Asp Glu Ser Asp Asn Glu Val Met Gly Lys Ser Glu Glu Ser
 420 425 430
 Asp Thr Asp Thr Ser Glu Arg Gln Asp Asp Ser Tyr Ile Glu Pro Glu
 435 440 445
 Pro Val Glu Pro Leu Lys Gly Asp Tyr Leu His Trp Asn Arg Ala Met
 450 455 460
 Glu Glu Leu Gly Glu Val Lys Val Cys Leu Phe Leu Glu Val Leu Xaa
 465 470 475 480
 Phe

<210> 105

<211> 131

<212> PRT

<213> Homo sapiens

<400> 105

Pro Gly Ser His Thr Ile Leu Arg Arg Ser Gln Ser Tyr Ile Pro Thr

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<210> 106
<211> 91
<212> PRT
<213> Homo sapiens
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<210> 107
<211> 123
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 107
 Gly Val Tyr Met Ala Thr Phe Tyr Glu Phe Phe Asn Glu Gln Lys Tyr
 1 5 10 15
 Ala Asp Ala Val Lys Asn Phe Leu Asp Leu Ile Ser Ser Ser Gly Arg
 20 25 30
 Arg Asp Pro Lys Ser Val Glu Gln Pro Ile Val Leu Lys Glu Gly Phe
 35 40 45
 Met Ile Lys Arg Ala Gln Gly Arg Lys Arg Phe Gly Met Lys Asn Phe
 50 55 60
 Lys Lys Arg Trp Phe Arg Leu Thr Asn His Gly Ile Tyr Leu Pro Gln
 65 70 75 80
 Lys Gln Arg Gly Pro Ala Ser Leu Gln His Ser His Arg Gly Thr Ser
 85 90 95
 Trp Ala Val Glu Glu Ala Xaa Gly Gly Ser Val Phe Lys Met Glu Lys
 100 105 110
 Xaa Val Ser Arg Xaa Ile Pro Val Gln Ser Val
 115 120

 <210> 108
 <211> 155
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 108
 Arg Trp Ala Ala Val Pro Cys Arg Arg Ala Leu Leu Leu Cys Asn Gly
 1 5 10 15
 Met Arg Tyr Lys Leu Leu Gln Glu Gly Asp Ile Gln Val Cys Val Ile
 20 25 30
 Arg His Pro Arg Thr Phe Leu Ser Lys Ile Leu Thr Ser Lys Phe Leu
 35 40 45
 Arg Arg Trp Glu Pro His His Leu Thr Leu Ala Asp Asn Ser Leu Ala
 50 55 60
 Ser Ala Thr Pro Thr Gly Tyr Met Glu Asn Ser Val Ser Tyr Ser Ala
 65 70 75 80
 Ile Glu Asp Val Gln Leu Leu Ser Trp Glu Asn Ala Pro Lys Tyr Cys
 85 90 95

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Leu Gln Leu Thr Ile Pro Gly Gly Thr Val Leu Leu Gln Ala Ala Asn
 100 105 110
 Ser Tyr Leu Arg Asp Gln Trp Phe His Ser Leu Gln Trp Lys Lys Lys
 115 120 125
 Ile Tyr Lys Tyr Lys Lys Val Leu Ser Asn Pro Xaa Arg Trp Glu Xaa
 130 135 140
 Val Leu Lys Glu Ile Arg Thr Leu Val Asp Ile
 145 150 155

<210> 109
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 109
 Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Asp Glu Asn Arg Ser Phe
 1 5 10 15
 Glu Gly Thr Leu Tyr Lys Arg Gly Ala Leu Leu Lys Gly Trp Lys Pro
 20 25 30
 Arg Trp Phe Val Leu Asp Val Thr Lys His Gln Leu Arg Tyr Tyr Asp
 35 40 45
 Ser Gly Glu Asp Thr Ser Cys Lys Gly His Ile Asp Leu Ala Glu Val
 50 55 60
 Glu Met Val Ile Pro Ala Gly Pro Ser Met Gly Ala Pro Lys His Thr
 65 70 75 80
 Ser Asp Lys Ala Phe Phe Asp Leu Lys Thr Ser Lys Arg Val Tyr Asn
 85 90 95
 Phe Cys Ala Gln Asp Gly Gln Ser Ala Gln Gln Trp Met Asp Lys Ile
 100 105 110
 Gln Ser Cys Ile Ser Asp Ala
 115

<210> 110
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 110
 His Arg Thr Lys Gly Arg Val Phe Ser Ala Leu Arg Thr Gly Ala Glu
 1 5 10 15
 Glu Ala Ala Val Ala Pro Gly Ala Phe Glu Arg Ala His Pro Ser Pro
 20 25 30
 Arg Ala Asn Ala Asp Pro Gly Pro Thr Gly Gly Thr Ala Pro Asp Ser
 35 40 45
 Pro Arg Ala Phe Leu Ala Ala Met Glu Asp Gly Val Tyr Glu Pro Pro
 50 55 60
 Asp Leu Thr Pro Glu Glu Arg Met Glu Leu Glu Asn Ile Arg Arg Arg
 65 70 75 80
 Lys Gln Glu Leu Leu Val Glu Ile Gln Arg Leu Arg Glu Glu Leu Ser

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85										90					95				
Glu	Ala	Met	Ser	Glu	Val	Glu	Gly	Leu	Glu	Ala	Asn	Glu	Gly	Ser	Lys				
			100					105					110						
Thr	Leu	Gln	Arg	Asn	Arg	Lys	Met	Ala	Met	Gly	Arg	Lys	Lys	Phe	Asn				
		115					120					125							
Met	Asp	Pro	Lys	Lys	Gly	Ile	Gln	Phe	Leu	Val	Glu	Asn	Glu	Leu	Leu				
	130					135					140								
Gln	Asn	Thr	Pro	Glu	Glu	Ile	Ala	Arg	Phe	Leu	Tyr	Lys	Gly	Glu	Gly				
145					150					155					160				
Leu	Asn	Lys	Thr	Ala	Ile	Gly	Asp	Tyr	Leu	Gly	Glu	Arg	Glu	Glu	Leu				
				165					170					175					
Asn	Leu	Ala	Val	Leu	His	Ala	Phe	Val	Asp	Leu	His	Glu	Phe	Thr	Asp				
			180					185					190						
Leu	Asn	Leu	Val	Gln	Ala	Leu	Arg	Gln	Phe	Leu	Trp	Ser	Phe	Arg	Leu				
		195					200					205							
Pro	Gly	Glu	Ala	Gln	Lys	Ile	Asp	Arg	Met	Met	Glu	Ala	Phe	Ala	Gln				
	210					215					220								
Arg	Tyr	Cys	Leu	Cys	Asn	Pro	Gly	Val	Phe	Gln	Ser	Thr	Asp	Thr	Cys				
225					230					235					240				
Tyr	Val	Leu	Ser	Phe	Ala	Val	Ile	Met	Leu	Asn	Thr	Ser	Leu	His	Asn				
				245					250					255					
Pro	Asn	Val	Arg	Asp	Lys	Pro	Gly	Leu	Glu	Arg	Phe	Val	Ala	Met	Asn				
			260					265					270						
Arg	Gly	Ile	Asn	Glu	Gly	Gly	Asp	Leu	Pro	Glu	Glu	Leu	Leu	Arg	Asn				
		275					280					285							
Leu	Tyr	Asp	Ser	Ile	Arg	Asn	Glu	Pro	Phe	Lys	Ile	Pro	Glu	Asp	Asp				
	290					295					300								
Gly	Asn	Asp	Leu	Thr	His	Thr	Phe	Phe	Asn	Pro	Asp	Arg	Glu	Gly	Trp				
305					310					315					320				
Leu	Leu	Lys	Leu	Gly	Gly	Gly	Arg	Val	Lys	Thr	Trp	Lys	Arg	Arg	Trp				
				325					330					335					
Phe	Ile	Leu	Thr	Asp	Asn	Cys	Leu	Tyr	Tyr	Phe	Glu	Tyr	Thr	Thr	Asp				
			340					345					350						
Lys	Glu	Pro	Arg	Gly	Ile	Ile	Pro	Leu	Glu	Asn	Leu	Ser	Ile	Arg	Glu				
		355					360					365							
Val	Asp	Asp	Pro	Arg	Lys	Pro	Asn	Cys	Phe	Glu	Leu	Tyr	Ile	Pro	Asn				
	370					375					380								
Asn	Lys	Gly	Gln	Leu	Ile	Lys	Ala	Cys	Lys	Thr	Glu	Ala	Asp	Gly	Arg				
385					390					395					400				
Val	Val	Glu	Gly	Asn	His	Met	Val	Tyr	Arg	Ile	Ser	Ala	Pro	Thr	Gln				
				405					410					415					
Glu	Glu	Lys	Asp	Glu	Trp	Ile	Lys	Ser	Ile	Gln	Ala	Ala	Val	Ser	Val				
			420					425					430						
Asp	Pro	Phe	Tyr	Glu	Met	Leu	Ala	Ala	Arg	Lys	Lys	Arg	Ile	Ser	Val				

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435

440

445

Lys Lys Lys Gln Glu Gln Pro
 450 455

<210> 111
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 111
 Lys Arg Arg Pro Thr Ala Thr Ser Ala Cys Arg Gly Gly Pro Ala Ala
 1 5 10 15

Glu Arg Ser Cys Leu Arg Val Thr Phe Ala Ser Ala Cys Pro Ala Ser
 20 25 30

Met Glu Pro Lys Arg Ile Arg Glu Gly Tyr Leu Val Lys Lys Gly Ser
 35 40 45

Val Phe Asn Thr Trp Lys Pro Met Trp Val Val Leu Leu Glu Asp Gly
 50 55 60

Ile Glu Phe Tyr Lys Xaa Xaa Ser Asp Asn Ser Pro Lys Gly Met Xaa
 65 70 75 80

Pro Leu Lys Gly Ser Thr Leu
 85

<210> 112
 <211> 592
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (296)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (306)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (313)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (589)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (591)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 112
 Gln Glu Cys Arg Gly Ile Arg Ala Ala Ser Ala Ser Ala Gln Glu Leu
 1 5 10 15
 Ala Thr Ser Leu Lys Thr Glu Gly Thr Val Gly Gly Gly Thr Val Gly
 20 25 30
 Gln Cys Gly Thr Tyr Leu Ser Pro Leu Trp Arg Gly Xaa Thr Arg Glu
 35 40 45
 Arg Ala Pro Xaa Gly Thr Glu Met Gln Asp Arg Leu His Ile Leu Glu
 50 55 60
 Asp Leu Asn Met Leu Tyr Ile Arg Gln Met Ala Leu Ser Asp Leu Pro
 65 70 75 80
 Glu Asp Thr Glu Leu Gln Arg Lys Leu Asp His Glu Ile Arg Met Xaa
 85 90 95
 Glu Gly Ala Cys Lys Leu Leu Ala Xaa Cys Ser Gln Arg Glu Gln Ala
 100 105 110
 Leu Glu Ala Thr Lys Ser Leu Leu Val Cys Asn Ser Arg Ile Leu Ser
 115 120 125
 Tyr Met Gly Glu Leu Gln Arg Lys Glu Ala Gln Val Leu Gly Lys
 130 135 140
 Thr Ser Arg Arg Pro Ser Asp Ser Gly Pro Pro Ala Glu Arg Ser Pro
 145 150 155 160
 Cys Arg Gly Arg Val Cys Ile Ser Asp Leu Arg Ile Pro Leu Met Trp
 165 170 175
 Lys Asp Thr Glu Tyr Phe Lys Asn Lys Gly Asp Leu His Arg Trp Ala
 180 185 190

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 100260.665560

Val Phe Leu Leu Leu Gln Leu Gly Glu His Ile Gln Asp Thr Glu Met
 195 200 205
 Ile Leu Val Asp Arg Thr Leu Thr Asp Ile Ser Phe Gln Ser Asn Val
 210 215 220
 Leu Phe Ala Glu Ala Gly Pro Asp Phe Glu Leu Arg Leu Glu Leu Tyr
 225 230 235 240
 Gly Ala Cys Val Glu Glu Glu Gly Ala Leu Thr Gly Gly Pro Lys Arg
 245 250 255
 Leu Ala Thr Lys Leu Ser Ser Ser Leu Gly Arg Ser Ser Gly Arg Arg
 260 265 270
 Val Arg Ala Ser Leu Asp Ser Ala Gly Gly Ser Gly Ser Ser Pro Ile
 275 280 285
 Leu Leu Pro Thr Pro Val Val Xaa Gly Pro Arg Tyr His Leu Leu Ala
 290 295 300
 His Xaa Thr Leu Thr Leu Ala Ala Xaa Gln Asp Gly Phe Arg Thr His
 305 310 315 320
 Asp Leu Thr Leu Ala Ser His Glu Glu Asn Pro Ala Trp Leu Pro Leu
 325 330 335
 Tyr Gly Ser Val Cys Cys Arg Leu Ala Ala Gln Pro Leu Cys Met Thr
 340 345 350
 Gln Pro Thr Ala Ser Gly Thr Leu Arg Val Gln Gln Ala Gly Glu Met
 355 360 365
 Gln Asn Trp Ala Gln Val His Gly Val Leu Lys Gly Thr Asn Leu Phe
 370 375 380
 Cys Tyr Arg Gln Pro Glu Asp Ala Asp Thr Gly Glu Glu Pro Leu Leu
 385 390 395 400
 Thr Ile Ala Val Asn Lys Glu Thr Arg Val Arg Ala Gly Glu Leu Asp
 405 410 415
 Gln Ala Leu Gly Arg Pro Phe Thr Leu Ser Ile Ser Asn Gln Tyr Gly
 420 425 430
 Asp Asp Glu Val Thr His Thr Leu Gln Thr Glu Ser Arg Glu Ala Leu
 435 440 445
 Gln Ser Trp Met Glu Ala Leu Trp Gln Leu Phe Phe Asp Met Ser Gln
 450 455 460
 Trp Lys Gln Cys Cys Asp Glu Ile Met Lys Ile Glu Thr Pro Ala Pro
 465 470 475 480
 Arg Lys Pro Pro Gln Ala Leu Ala Lys Gln Gly Ser Leu Tyr His Glu
 485 490 495
 Met Ala Ile Glu Pro Leu Asp Asp Ile Ala Ala Val Thr Asp Ile Leu
 500 505 510
 Thr Gln Arg Arg Ala Gln Gly Trp Arg His Pro His Pro Gly Trp Gln
 515 520 525
 Cys Leu Gln Thr Ser Leu Pro Cys Leu Thr Pro Ala Arg Leu Pro Gln
 530 535 540

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<220>
<221> SITE
<222> (80)

$\langle 220 \rangle$

<222> (86)

<400> 114

Xaa Ser Arg Thr Phe Tyr Leu Val Ala Lys Thr Glu Gln Glu Met Gln
20 25 30

Val Trp Val His Ser Ile Ser Gln Val Cys Asn Leu Gly His Leu Glu
35 40 45

Asp Gly Ala Asp Ser Met Glu Ser Leu Ser Tyr Thr Pro Ser Ser Leu
50 55 60

Gln Pro Ser Ser Ala Ser Ser Leu Leu Thr Ala His Ala Ala Xaa Xaa
65 70 75 80

Ser Leu Pro Arg Asp Xaa Pro Asn Thr Asn Ala Val Ala Thr Glu Glu
85 90 95

Thr Arg Ser Glu Ser Glu Leu Leu Phe Leu Pro Asp Tyr Leu Val Leu
100 105 110

Ser Asn Cys Glu Thr Gly Arg Leu His His Thr Ser Leu Pro Thr Arg
115 120 125

Cys Asp Ser Trp Ser Asn Ser Asp Arg Ser Leu Glu Gln Ala Ser Phe
130 135 140

Asp Asp Val Phe Val Asp Cys Leu Gln Pro Leu Pro Ser Ser His Leu
145 150 155 160

Val His Pro Ser Cys His Gly Ser Gly Ala Gln Glu Val Pro Ser Ser
165 170 175

Arg Pro Gln Ala Ala Leu Ile Trp Ser Arg Glu Ile Asn Gly Pro Pro
180 185 190

Arg Gly Pro Leu Val Phe Phe Thr Ile Ala Gly Lys Phe Leu Lys Phe
195 200 205

His His Ser Gly Arg
210

<210> 115

$\langle 211 \rangle$ 153

<212> PRT

<213> Homo sapiens

<400> 115

Leu Thr Ser Gly Phe Leu Ser Gly Tyr Gly Ile Ser Val Trp Val Ile
1 5 10 15

Ser Trp Gln Arg Gly Ala Gly Ser Met Gly Gly Lys Lys Gly Ala Gly
20 25 30

Arg Gly Trp Leu Gln Gly Gly Gly Arg Val Arg Glu Ala Leu His Gly
35 40 45

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<210> 116
<211> 321
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (285)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400>	116															
Val	Lys	Val	Arg	Leu	Ile	Glu	Asp	Arg	Val	Leu	Pro	Ser	Gln	Cys	Tyr	
1				5					10					15		
Gln	Pro	Leu	Met	Glu	Leu	Leu	Met	Glu	Ser	Val	Gln	Gly	Pro	Ala	Glu	
			20					25					30			
Glu	Asp	Thr	Ala	Ser	Pro	Leu	Ala	Leu	Leu	Glu	Glu	Leu	Thr	Leu	Gly	
		35					40					45				
Asp	Cys	Arg	Gln	Asp	Leu	Ala	Thr	Lys	Leu	Val	Lys	Leu	Phe	Leu	Gly	
	50					55					60					
Arg	Gly	Leu	Ala	Gly	Arg	Phe	Leu	Asp	Tyr	Leu	Thr	Arg	Arg	Glu	Val	
65					70					75					80	
Ala	Arg	Thr	Met	Asp	Pro	Asn	Thr	Leu	Phe	Arg	Ser	Asn	Ser	Leu	Ala	
				85					90					95		
Ser	Lys	Ser	Met	Glu	Gln	Phe	Met	Lys	Leu	Val	Gly	Met	Pro	Tyr	Leu	
			100					105					110			
His	Glu	Val	Leu	Lys	Pro	Val	Ile	Ser	Arg	Val	Phe	Glu	Glu	Lys	Lys	
		115					120					125				
Tyr	Met	Glu	Leu	Asp	Pro	Cys	Lys	Met	Asp	Leu	Gly	Pro	His	Pro	Glu	
	130					135					140					
Asp	Leu	Leu	Gln	Arg	Arg	Thr	Leu	Gly	Gly	Ala	Asp	Ala	Gly	Asp	Gln	

145 150 155 160
 Pro Gly Ala Ala Asp Gly Leu Leu Gly Pro Ile Val Asp Ala Ile Val
 165 170 175
 Gly Ser Val Gly Arg Cys Pro Pro Ala Met Arg Leu Ala Phe Lys Gln
 180 185 190
 Leu His Arg Arg Val Glu Glu Arg Phe Pro Gln Ala Glu His Gln Asp
 195 200 205
 Val Lys Tyr Leu Ala Ile Ser Gly Phe Leu Phe Leu Arg Phe Phe Ala
 210 215 220
 Pro Ala Ile Leu Thr Pro Lys Leu Phe Asp Leu Arg Asp Gln His Ala
 225 230 235 240
 Asp Pro Gln Thr Ser Arg Ser Leu Leu Leu Leu Ala Lys Met Cys His
 245 250 255
 Ser Ile Pro Val Ser His Ile Arg Ala Val Glu Arg Val Asp Xaa Gly
 260 265 270
 Ala Phe Gln Leu Pro His Val Met Gln Val Val Thr Xaa Asp Gly Thr
 275 280 285
 Gly Ala Leu His Thr Thr Tyr Leu Gln Cys Lys Asn Val Asn Glu Leu
 290 295 300
 Asn Gln Trp Leu Ser Ala Leu Arg Lys Ala Ser Ala Pro Asn Pro Asn
 305 310 315 320
 Leu

<210> 117
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 117
 Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro
 1 5 10 15
 Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
 20 25 30
 Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
 35 40 45
 Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
 50 55 60
 Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
 65 70 75 80
 Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
 85 90 95
 Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
 100 105 110
 Ser Gln Val Cys Asn
 115

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<210> 131

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<211> 25
 <212> DNA
 <213> Homo sapiens

<400> 131
 cactttggat tgccttcat cagtc 25

<210> 132
 <211> 33
 <212> DNA
 <213> Homo sapiens

<400> 132
 acgtggatcc ccaatagaga aatcaatggc cca 33

<210> 133
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 133
 acgtggatcc cctggtaga gatgtgtgtt 30

<210> 134
 <211> 33
 <212> DNA
 <213> Homo sapiens

<400> 134
 tgtgtggatc cccgtgccca tgagccctaa agg 33

<210> 135
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 135
 tgtgtgaatt cgggtgaaag gtttctcgag tc 32

<210> 136
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 136
 gcggcaagct ttttgcaaag cctaggc 27

<210> 137
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 137
 Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro

Y00260.66566

<400> 138
Ser Pro Leu Pro Glu Leu Pro Ala Asn Leu Glu Pro Pro Pro Val Asn
1 5 10 15
Arg Asp Leu Lys Pro Gln Arg Lys Ser Arg Pro Pro Pro Leu Asp
20 25 30

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<400> 139
Trp Thr Lys Lys Phe Ser Leu Asp Tyr Leu Ala Leu Asp Phe Asn Ser
  1          5          10          15

Ala Ser Pro Ala Pro Met Gln Gln Lys Leu Leu Leu Ser Glu Glu Gln
      20          25          30

Arg Val Asp Tyr Val Gln Val Asp Glu Gln Lys Thr Gln Ala Leu Gln
      35          40          45

Ser Thr Lys Gln Glu Trp Thr Asp Glu Arg Gln Ser Lys Val
    50          55          60

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